

Sunday, September 15th

Lorca Auditorium

- 19:00 - 21:00** **Opening ceremony**
- 19:00 - 19:30** **Welcome by 20th ICN and IUNS Presidents and Spanish Authorities**
- 19.30 – 20.15** **Opening Lecture**
Chair: Angel Gil, University of Granada, Granada, Spain
- The New Sustainable Development Goals and Nutrition**
Maria Neira, Director Public Health and Environment, World Health Organization (WHO)
- 20.15 - 21.00** **Performance**

Monday, September 16th

Andalucía Rooms

- 08.00 – 10.00** **Parallel Symposium**
NPS1-1 **Early life nutrition intervention: Effects on long term health and function (Early Nutrition Project)**
T1 – 1.2
Chairs: Bert Koletzko, University of Munich, Munich, Germany
Keith P. West, Johns Hopkins University, Baltimore, USA
- Early nutrition programming of adult health - opportunities for prevention of obesity and associated disorders
Bert Koletzko, University of Munich, Munich, Germany
- The Southampton Women's Survey: from epidemiology to interventions and policy
Keith Godfrey, University of Southampton, Southampton, UK
- Long term effects of early life micronutrient interventions in undernourished settings
Parul Christian, Johns Hopkins University, Baltimore, USA
- Antenatal dietary exposures and nutritional status on offspring health in undernourished settings
Sophie Moore, London School of Hygiene and Tropical Medicine, London, UK
- 11.30 – 13.30** **Parallel Symposium**
PS1-1 **Developments in personalised nutrition: What's next? (Food4Me Project)**
T1 - 1.1
Chairs: Mike Gibney, University College Dublin, Dublin, Ireland
José Alfredo Martínez, Universidad de Navarra, Pamplona, Spain

Personalised nutrition, an introduction

Mike Gibney, University College Dublin, Dublin, Ireland

Exploring future opportunities and barriers for business model concepts in personalized nutrition

Jo Goossens, Bio-Sense, Belgium

What do consumers think about personalised nutrition?

Lynn Frewer, Newcastle University Technology and Software in Personalised Nutrition, Newcastle, UK

Daniel Hannelore, Technische Universität München, Germany

Personalised nutrition intervention, how effective is personalised nutrition advice?

John Mathers, Newcastle University, Newcastle, UK

Is it right? The ethical and legal implications of personalised nutrition

Ulf Görman, Lund University & Jönköping University, Jönköping, Sweden

14.30-16.00

T1

Oral Communications

Chair: Concepción Aguilera, University of Granada, Spain

M^a Jesús Moreno Aliaga, Departamento Ciencias de la Alimentación y Fisiología, Facultad de Farmacia, Universidad de Navarra, Pamplona, Spain

O001 - TUMOR SUPPRESSOR GLYCINE-N METHYLTRANSFERASE REGULATES ONE CARBON TRANSMETHYLATION KINETICS

E P. Chiang, National Chung Hsing University, Taiwan, China

O002 - RELATIONSHIP BETWEEN VITAMIN A STATUS OF LACTATING SENEGALESE WOMEN AND THEIR 6 MONTHS OLD INFANTS

S. Wade, Université Cheikh Anta Diop De Dakar, Senegal

O003 - GENOME-WIDE VARIANCE CONTRIBUTION OF GENOTYPE BY ERYTHROCYTE N-3 POLYUNSATURATED FATTY ACIDS INTERACTION TO DIABETES-RELATED TRAITS

J S. Zheng, Department Of Food Science And Nutrition, Zhejiang University, Hangzhou, China

O004 - THE METABONOMIC RESEARCH ON PRETERM INFANTS WITH NRDS

X. Liu, Clinic Department Of Guangzhou Women And Children Medical Centre, Beijing, China

O005 - THE EXPRESSION OF TASTE RECEPTOR HTAS2R FAMILY OF DIABETICS.

T. Takao, Faculty of Human Life and Environmental Science, Showa Women's University, Tokyo, Japan

O006 - LEPTIN RECEPTOR GENETIC VARIANTS ARE SEX-SPECIFIC ASSOCIATED WITH BMI IN OBESE CHILDREN

*J. Olza, Department of Biochemistry and Molecular Biology II,
University of Granada, Spain*

O007 - THE MTHFR 677TT GENOTYPE AND ITS INTERACTION WITH
RELATED B-VITAMINS IN HYPERTENSION

*R. Reilly, Northern Ireland Centre for Food and Health (NICHE),
University of Ulster, Coleraine, Co. Derry, Northern Ireland*

O008 - PRECLINICAL EVALUATION OF THE INFLUENCE OF FEEDING
WITH SLOW DIGESTING CARBOHYDRATES DURING PREGNANCY ON
PROGRAMMING OFFSPRING METABOLIC HEALTH (NIGOHEALTH
STUDY)

R. Rueda, Discovery R&D, Abbott Nutrition, Granada, Spain

16.00-16.30

T1

Special Lecture

Chair: Marta Garaulet, University of Murcia, Murcia, Spain

Chronobiology and obesity: The number 25, the initial point

*Fred W. Turek, Charles E. & Emma H. Morrison, University in Evanston
and Chicago, Illinois, USA*

Machado and Picasso Rooms

08.00 – 10.00

NPS1-2

T2 – 2.1

Parallel Symposium

**Efficacy of lipid-based nutrient supplements for prevention of
maternal and infant undernutrition in Africa: Results of the iLiNS
Project**

*Chairs: Kathryn Dewey, University of California, Davis, USA
Per Ashorn, University of Tampere School of Medicine, Finland*

Introduction to the iLiNS Project

Kathryn Dewey, University of California, Davis, USA

Efficacy of reduced-cost formulations of LNS for infants and young
children in Malawi: The iLiNS-DOSE study

Kenneth Maleta, University of Malawi, Malawi

Evaluation of the optimal amount of zinc to include in LNS for infants
and young children: The iLiNS-ZINC study in Burkina Faso

Sonja Hess, University of California, Davis, USA

Efficacy of LNS products for pregnant & lactating women: Pregnancy
outcomes from the iLiNS-DYAD studies in Ghana and Malawi

Seth Adu-Afarwauh, University of Ghana, Ghana

*Per Ashorn, University of Tampere School of Medicine, Tampere,
Finland*

Willingness to pay for LNS products and cost-effectiveness estimates
for the iLiNS Project sites

Stephen A. Vosti, University of California, Davis, USA

Panel discussion of the iLiNS Project results and audience comments and questions

Purnima Menon, International Food Policy Research Institute

Roland Kupka, Harvard School of Public Health, Boston, MA, USA

Ellen Piwoz, Bill & Melinda Gates Foundation, Washington, DC, USA

11.30 – 13.30

PS1-2

T2 - 2.3

Parallel Symposium

Nutrition and lifestyle in adolescents: The HELENA study

Chairs: Stefaan De Henauw, Ghent University, Ghent, Belgium

Luis Moreno, University of Zaragoza, Zaragoza, Spain

Perinatal nutrition and adolescent's health

Frédéric Gottrand, University of Lille, Lille, France

Dietary intake in European adolescents: Issues and controversies

Inge Huybrechts, International Agency for Research on Cancer, Lyon, France

Adolescent's physical inactivity: Causes and consequences

Jonatan Ruiz, University of Granada, Granada, Spain

Vitamin status in adolescents: Is there a need for intervention?

Marcela González-Gross, Universidad Politécnica de Madrid, Madrid, Spain

14.30-16.00

T2

Oral Communications

Chair: Mauro Fisberg, Department of Pediatrics, Escola Paulista de Medicina, Federal University of Sao Paulo, UNIFESP, Brazil

Esther Nova, Departamento de Metabolismo y Nutrición, Instituto de Ciencia y Tecnología de Alimentos y Nutrición (ICTAN-CSIC), Madrid, Spain

O009 - BREASTFEEDING ATTENUATES THE EFFECT OF LOW BIRTH WEIGHT ON ABDOMINAL ADIPOSITY; THE HELENA STUDY

I. Labayen, Department of Nutrition and Food Sciences, University of the Basque Country, Vitoria, Spain

O010 - NUTRITION EFFECT OF YYB INTERVENTION ON 6-24 MONTHS INFANTS IN WENCHUAN EARTH QUACK REGION IN CHINA

J S. Huo, Institute of Nutrition and Food Safety, China

O011 - INFANT MACRONUTRIENT INTAKE AND CARDIOVASCULAR STRUCTURES AND FUNCTION IN CHILDHOOD: THE GENERATION R STUDY

E H. van den Hooven, Department of Epidemiology, Erasmus MC, University Medical Center, Rotterdam, The Netherlands

O012 - MICRONUTRIENT DEFICIENCIES OF ADOLESCENT GIRLS IN CENTRAL MOZAMBIQUE – ZANE-STUDY

R. Freese, Division of Nutrition, University of Helsinki, Helsinki, Finland

O013 - IS THE CURRENT STATUS CONTRIBUTING TO REDUCE THE EXCLUSIVE BREASTFEEDING LENGTH?

A E M. Rinaldi, Graduation Program Of Nutrition In Public Health– School Of Public Health – University Of Sao Paulo (USP)/ School Of Medicine – Federal University Of Uberlandia, Uberlandia, Minas Gerais, Brazil

O014 - EFFECT OF ANIMAL-SOURCE FOODS AND MICRONUTRIENT-FORTIFICATION COMPLEMENTARY FOODS ON BODY COMPOSITION, LINEAR GROWTH, IRON STATUS – THE WINFOOD PROJECT IN CAMBODIA

J K H. Skau, Department of Nutrition, Exercise and Sports, Faculty of Science, University of Copenhagen, Denmark

O015 - MATERNAL LCPUFA STATUS DURING PREGNANCY AND CHILD INTERNALISING AND EXTERNALISING PROBLEMS. THE GENERATION R STUDY

J. Steenweg-de Graaff, The Generation R Study Group, Erasmus Medical Centre, Rotterdam, The Netherlands

O016 - VITAMIN B12 SUPPLEMENTATION OF BANGLADESHI WOMEN DURING PREGNANCY AND LACTATION INCREASES VITAMIN B12 IN BREAST MILK AND IMPROVES INFANT STATUS

T. Siddiqua, Program in International and Community Nutrition, University Of California, Davis, USA

16.00-16.30

T2

Special Lecture

Chair: Ricardo Uauy, University of Chile, Santiago de Chile, Chile

Omega-3 fatty acid sources for human health: what are the choices, what about sustainability?

Norman Salem

Falla Auditorium

08.00 – 10.00

NPS1-3

T3 – 3.6

Parallel Symposium

Nutrition and environmental sustainability (FAO)

Chairs: Harriet Kuhnlein, Centre for Indigenous People Nutrition and the Environment, Montreal, Canada

Barbara Burlingame, FAO, Rome, Italy

Introduction: Diets, foods, and nutrients as ecosystem services

Barbara Burlingame, FAO, Rome, Italy

Traditional food systems of indigenous peoples

Harriet Kuhnlein, Centre for Indigenous People Nutrition and the Environment, Montreal, Canada

Developing guidelines, methods and indicators for sustainable diets

Barbara Burlingame, FAO, Rome, Italy

Calculating environmental impacts of diets: The Mediterranean diet as a case study

Lluís Serra-Majem, Universidad de Las Palmas de Gran Canaria, Las Palmas de Gran Canaria, Spain

Selected communications (various authors)

11.30 – 13.30

PS1-3

T3 – 3.5

Parallel Symposium

Global nutrition strategies (WHO)

*Chair: Ramiro Lopez da Silva, UNSCN, World Food Programme
UNSCN Chair*

The place of food security and nutrition in the global development debate

Juliet Alphonse, Food and Agriculture Organization of the United Nations, Rome, Italy

Goals, targets and indicators for the post 2015 development agenda
Leslie Elder, World Bank, Washington DC, USA

Reducing stunting: targets, commitments, roadmap and achievements
Werner Schultink, UNICEF, New York, USA

Aligning the world food supply to people's nutrition needs
Francesco Branca, WHO, Geneva, Switzerland

Nutrition sensitive agriculture
Sean Kennedy, International Fund for Agricultural Development (IFAD), Rome, Italy

14.30-16.00

T3

Oral Communications

*Chair: Stefaan De Henauw, Ghent University, Ghent, Belgium
Marieta Fernández Cabrera, Centre of Biomedical Research, University of Granada, Spain*

O017 - DIGESTIVE HEALTH AND BOWEL FUNCTION DURING THE MENSTRUAL CYCLE: THE EFFECT OF DIET AND HORMONAL CONTRACEPTIVE USE.

L. Dye, University Of Leeds, Leeds, UK

O018 - EVIDENCE ABOUT SUGAR-SWEETENED BEVERAGES AND WEIGHT GAIN: IS THE POTENTIAL FINANCIAL CONFLICTS OF INTEREST BIASING THE CONCLUSIONS?: A SYSTEMATIC REVIEW

M. Bes-Rastrollo, Dept. of Preventive Medicine and Public Health, University of Navarra, Spain

O019 - IRON FORTIFICATION INTERVENTIONS: SYNTHESIS OF RESULTS FROM THREE RANDOMIZED TRIALS IN ASIA

J L. Finkelstein, Division of Nutritional Sciences, Cornell University, USA

O020 - PARENTAL SPORTS AND TV TIME AS MEDIATORS OF PARENTAL EDUCATION DIFFERENCES IN CHILDREN'S SPORTS AND TV TIME: THE ENERGY-PROJECT

J M. Fernández Alvira, GENUD (Growth, Exercise, Nutrition and Development) Research Group. Faculty of Health Sciences, University of Zaragoza, Zaragoza, Spain

O021 - RISK FACTORS FOR PRELACTEAL FEEDINGS IN SEVEN LATIN AMERICA AND CARIBBEAN COUNTRIES.

C. Boccolini, Department of Social Nutrition, Rio de Janeiro State University, Brasil

O022 - CALORIES AND ENERGY BALANCE: THE IMPORTANCE OF SMALL STEPS TO TRIGGER BIG CHANGE TOWARDS REVERSING OBESITY

L. Sutherland, Dartmouth College, Hanover, NH, USA

O023 - HEMOCHROMATOSIS GENE (HFE) MUTATIONS AND THE RISK OF GASTRIC CANCER IN THE EUROPEAN PROSPECTIVE INVESTIGATION INTO CANCER AND NUTRITION STUDY

Agudo, Molecular Epidemiology Group, Translational Research Laboratory, Catalan Institute of Oncology-IDIBELL, Barcelona, Spain

O024 - THE SPANISH OBSERVATORY OF NUTRITION AND STUDY OF OBESITY: A NECESSARY ACTION

N. Perez-Farinos, Spanish Agency For Food Safety And Nutrition, Spain

16.00-16.30

T3

Special Lecture

Chair: Suzanne Murphy, University of Hawaii, USA

The role of policy and regulation in improving diets

Boyd Swinburn, Epidemiology and Biostatistics Department University of Auckland, New Zealand

Lorca Auditorium

08.00 – 10.00

NPS1-4

T4 - 4.1

Parallel Symposium

Dietary lipids and the risk of common diseases

Chairs: Teru Yanagita, Nishikyushu University and Saga University, Japan

Teruo Miyazawa, Tohoku University, Japan

Reduction of an overactive endocannabinoid system by dietary fat
Sebastiano Banni, Dipartimento di Scienze Biomediche, Università di Cagliari, Cagliari, Italy

Significance of phosphatidylcholine hydroperoxide in the pathogenicity of atherosclerosis

Teruo Miyazawa, Tohoku University, Japan

Lipids and risk of life-style related diseases

Yung Sheng Huang, Department of Nutrition, I-Shou University, China

Postprandial metabolism of docosapentaenoic acid (DPA, 22:5n-3) and eicosapentaenoic acid (EPA, 20:5n-3) in humans
Andrew J Sinclair, Deakin University, School of Medicine (Metabolic Research Unit), Australia

Dietary lipids and the prevention of obesity and inflammation
Teru Yanagita, Nishikyushu University and Saga University, Japan

10.30 – 11.30h

Plenary Lecture

Chair: Jose Alfredo Martinez, Universidad de Navarra, Spain

The resolution of inflammation. Is there anything nutrients can do for it?

Charles N. Serhan, Harvard Institutes of Medicine, Brigham and Women's Hospital and Harvard Medical School, Boston, Massachusetts, USA

11.30 – 13.30h

PS1-4

T4 - 4.4

Parallel Symposium

IUNS Task Force

Scaling up prevention and treatment of malnutrition*

*Chairs: Ricardo Uauy, University of Chile, Santiago de Chile, Chile
Anna Larrey, University of Ghana, Legon, Ghana*

The Waterlow Lecture: The SUN movement: in support of country-led action for improving people's nutrition
David Nabarro, Movement for Scaling Up Nutrition, United Nations, New York, USA

Scaling-up prevention of stunting
Tahmeed Ahmed, Centre for Nutrition & Food Security ICDDR, Bangladesh

Scaling-up treatment of severe malnutrition: Challenges
Marie-Pierre Allié, Médecins Sans Frontiers, Paris, France

Getting a country moving: Experience of Tanzania
Rose Kingamkono, SUN Civil Society, Tanzania

Windows of opportunity
Shenggen Fan, Director General International Food Policy Research Institute (IFPRI), Washington DC, USA

**A Post-Discussion session will take place from 13.30 to 16.30 in Seminars 3, 4 and 5*

14.30-16.00

T4

Oral Communications

Chairs:

Josefina Bressan, Universidade Federal de Viçosa. Departamento de Nutrição e Saúde, Viçosa-MG, Brazil

David Jiménez Pavón, GENUD (Growth, Exercise, NUtrition and Development), Research Group, Research Fellow, Juan de la Cierva (MICINN), University of Zaragoza, Zaragoza, Spain

O025 - EFFECTS OF DIETARY SUPPLEMENTATION WITH EICOSAPENTAENOIC ACID AND LIPOIC ACID IN HEALTHY OVERWEIGHT/OBESE WOMEN FOLLOWING AN ENERGY RESTRICTED DIET.

A. Huerta, Department of Food Science and Physiology, University of Navarra, Pamplona, Navarra, Spain

O026 - IMPACT OF VITAMIN A AND ZINC ON DIARRHEAL E. COLI INFECTIONS AND ASSOCIATED DIARRHEAL EPISODES AMONG CHILDREN IN MEXICO CITY, MEXICO.

K. Long, School of Population Health, University of Queensland, Australia

O027 - INPATIENT MANAGEMENT OF INFANTS SUFFERING FROM ACUTE MALNUTRITION AND THEIR OUTCOME DEPENDING OF THEIR CHARACTERISTICS

E. Chounfack, University of Ngaoundere, Cameroon

O028 - EFFECTS OF L-CARNITINE SUPPLEMENT ON PLASMA COAGULATION AND ANTICOAGULATION FACTORS IN HEMODIALYSIS PATIENTS

F. Hakeshzadeh, Faculty of Nutrition Sciences and Food Technology, Shahid Beheshti University of Medical Sciences, Tehran, Islamic Republic of Iran

O029 - THE BENEFICIAL EFFECTS OF THE RESMENA DIETARY PATTERN ON OXLDL IN PATIENTS WITH METABOLIC SYNDROME

R. De La Iglesia, Department of Nutrition, Food Science and Physiology, University of Navarra, Spain

O030 - EFFECT OF PHYSICAL ACTIVITY OR NUTRITION EDUCATION ON ANTHROPOMETRY AND BLOOD PRESSURE OF OVERWEIGHT OR OBESE ADOLESCENTS

R. Valdes-Ramos, Center for Research and Graduate Studies In Health Sciences, Faculty of Medicine, UAEM, México

O031 - NUTRITIONAL AND GENETIC DETERMINANTS OF CAROTID ATHEROSCLEROSIS, INFLAMMATORY CYTOKINES AND BONE MASS IN CHINESE ADULTS: A 3-YEAR PROSPECTIVE STUDY

Y. Chen, Department of Medical Statistics & Epidemiology, Sun Yat-Sen University, Guangzhou, China

O032 - EFFECTS OF ZINC SUPPLEMENTATION ON SERUM LEPTIN LEVEL AND INSULIN SENSITIVITY IN OBESE PEOPLE

L. Payahoo, Nutrition Research Center, Department of Nutrition, Faculty of Health And Nutrition, Tabriz University of Medical Science, Iran

O033 - ASSOCIATION BETWEEN THE IMPROVEMENT IN ANXIETY SYMPTOMS WITH WEIGHT LOSS IN SUBJECTS WITH METABOLIC SYNDROME

A. Perez-Cornago, Department of Nutrition, Food Science and Physiology. University of Navarra, Spain

16.00-16.30

T4

Special Lecture

Chair: James O Hill, Anschutz Health and Wellness Center, University of Colorado Anschutz Medical Campus, USA

Differential diagnosis and management in childhood obesities

Jesús Argente, Department of Paediatrics, Univesidad Autonoma de Madrid, Spain

Room B

08.00 – 10.00

NPS1-5

T5 – 5.5

Parallel Symposium

Methods and outcomes of nutritional assessment and health monitoring

*Chairs: Ibrahim Elmadfa, University of Vienna, Vienna, Austria
Cristina Campoy, University of Granada, Granada, Spain*

Using biomarkers for the validation of nutrient reference intake values and to verify intake data in nutrition surveys

Ibrahim Elmadfa, University of Vienna, Vienna, Austria

Iodine status

Pauline Emmett, University of Bristol, Bristol, UK

Plasma levels of fatty acids-binding protein associated with antioxidant status

Eunju Park, Kyungnam University, Changwon, Republic of Korea

Evaluation of the water soluble vitamin-status in Austrian pregnant women

Petra Rust, University of Vienna, Vienna, Austria

Revision of the Chinese Iodine DRIs and some issues of USI

Wanqi Zhang, W. Chen, M. Li, XL Ren, Q. Zhang, Tianjin Medical University, Tianjin, China

Indicators of healthy aging and age-related frailty

Heiner Boeing, DIFE, Potsdam, Germany

11.30 – 13.30

PS1-5

T5

Parallel Symposium

The SMILING Project: A South East Asian-European collaborative action to prevent micronutrient deficiencies in women and young children in South-East Asia

*Chairs: Emorn Wasantwisut, Institute of Nutrition, Mahidol University, Bangkok, Thailand
Jacques Berger, Institute of Research for Development (IRD), France*

The SMILING project: A North-South-South collaborative action to prevent micronutrient deficiencies in women and young children in South-East,
Jacques Berger, Institute of Research for Development (IRD), France

SEA country situations: priority problems and national/specific programs
Siti Muslimatum, University of Indonesia, Indonesia
Pattanee Winichagoon, Mahidol University, Salaya, Thailand

State-of-the-art of interventions to control micronutrient deficiencies
Nanna Roos, University of Copenhagen, Copenhagen, Denmark

Potential of food based approaches to control micronutrient deficiencies (mathematical modeling)
Elaine Fergusso, London School of Hygiene & Tropical Medicine, London, UK

Country intervention strategy evaluation by stakeholders
Yves Kameli, Institute of Research for Development (IRD), France

Way ahead: SMILING in the global context
Emorn Wasantwisut, Institute of Nutrition, Mahidol University, Thailand

14.30-16.00
T5

Oral Communications

Chairs: Sidiga Washi, United Arab Emirates University, UAE
M^{re} Dolores Yago

O034 - VALIDATION OF THE INTERACTIVE TWENTY-FOUR HOUR RECALL METHOD AMONG GHANAIA CHILDREN

D. Nketiah, Department of Nutrition And Food Science, University of Ghana, Legon, Ghana

O035 - BODY COMPOSITION OF KUWAITI CHILDREN; ESTABLISHMENT OF A STABLE ISOTOPE FACILITY FOR ASSESSMENT OF TOTAL BODY WATER IN KUWAIT

T. Al-Ati, Kuwait Institute for Scientific Research, Kuwait

O036 - PERCENTILE DISTRIBUTION OF ANTHROPOMETRIC VARIABLES OF BODY COMPOSITION IN PREGNANT WOMEN

I. Rached-Sosa, Centro de Atención Nutricional Infantil Antímano CANIA, Caracas, Distrito Federal, Venezuela

O037 - GROUNDWATER IRON IN BANGLADESH: DOES IT CONTRIBUTE TO POPULATION IRON NUTRITION?

S. Rahman, Centre for Nutrition and Food Security, icddr, b, Dhaka, Bangladesh

O038 - IDENTIFYING KEY FOOD SOURCES OF VITAMIN A, IRON AND ZINC AND POTENTIAL FOOD FORTIFICATION VEHICLES IN BANGLADESH

O. Bermudez, Tufts University School Of Medicine, Boston, USA

O039 - ADOLESCENT GIRLS IN INDONESIA ARE AT RISK OF INADEQUATE MICRONUTRIENT INTAKES

R. Indriasari, Nutrition Department, Faculty Of Public Health, Hasanuddin University, Indonesia

O040 - THE MAIN GROWTH PARAMETERS OF 7 AND 8 YEAR-OLD LITHUANIAN CHILDREN IN HISTORICAL PERSPECTIVE

A. Petrauskien, Institute of Health Research, Academy of Medicine, Lithuanian University of Health Sciences, Kaunas, Lithuania

O041 - CROSS-SECTIONAL ADIPOSITY AND LEAN MASS OF SIX MONTH OLD INFANTS DETERMINED BY DEUTERIUM OXIDE DOSE-TO-INFANT IN RURAL KENYA

S. Onyango-Omollo, Institute of Tropical and Infectious Diseases, University Of Nairobi, Kenya

O041B - METHODS OF MEASURING OVERWEIGHT AND OBESITY, AMONG 6-9 YEARS SCHOOL CHILDREN IN ALAIN CITY, UAE

Sidiga Washi, United Arab Emirates University, UAE

16.00-16.30

T5

Special Lecture

Chair: Marion Hetherington, Department of Biopsychology, Institute of Psychological Sciences, University of Leeds, Leeds, UK

Sweetness, satiation, and satiety

France Bellisle, Faculty of Medicine, Laval University, Quebec. Centre de Recherche en Nutrition Humaine Ile de France, Université Paris, Bobigny, France

Room C

08.00 – 10.00

NPS1-6

T6 – 6.1

Parallel Symposium

Diversity of physiological functions of amino acids and peptides

Chairs: Yoshiharu Shimomura, Nagoya University Graduate School of Bioagricultural Sciences, Japan

Sidney M. Morris, University of Pittsburgh School of Medicine, Pittsburgh, PA, USA

Amino acid profiling for clinical diagnosis and amino acid-based personalized nutrition

Yasushi Noguchi, Ajinomoto Co., Inc., Japan

Dietary supplementation with specific amino acid mixtures promotes mitochondrial biogenesis: physiological and pathophysiological relevance in mammals

Enzo Nisoli, Milan University, Milan, Italy

Physiological functions of soybean peptides.

Hiroshi Hara, Hokkaido University Graduate School of Agriculture, Japan

11.30 – 13.30

PS1-6

T6 – 6.1

Recent advances in arginine metabolism: roles and regulation of the arginases.

Sidney M. Morris, Jr., University of Pittsburgh School of Medicine, Pittsburgh, PA USA

Parallel Symposium

The PREVIEW Project

Chairs: Anne Birgitte Raben, University of Copenhagen, Copenhagen, Denmark

Santiago Navas-Carretero, University of Navarra, Pamplona, Spain

The role of diet in the prevention of type-2 diabetes (State-of-the art)

Jennie Brand-Miller, University of Sydney, Sydney, Australia

Physical activity and the prevention of diabetes: Previewing the evidence

Gareth Stratton, Research into Exercise Activity and Children's Health Group (REACH), UK

Preview: prevention of diabetes through lifestyle intervention and population studies in Europe and around the world

Anne Raben, University of Copenhagen, Copenhagen, Denmark

The preview-intervention trial: Design and methods

Mikael Fogelholm, University of Helsinki, Helsinki, Finland

The preview-population studies: Design and methods

Edith Feskens, Wageningen University, Wageningen, the Netherlands

14.30-16.00

T6

Oral Communications

Chairs: Mauro Serafini, Agricultural Research Council (CRA), Rome, Italy

Fermin Milagro, Department of Nutrition, Food Science and Physiology, University of Navarra, Pamplona, Spain

O042 - DADIZEIN SOY ISOFLAVONE AND ITS GUT METABOLITE, EQUOL: A REVIEW OF ANIMAL AND HUMAN STUDIES.

F. Bagherzadeh, Students' Research Committee, Faculty of Health & Nutrition, Tabriz University of Medical Sciences, Tabriz, Iran

O043 - EFFECT OF FRUCTOOLIGOSACCHARIDES AND GALACTOOLIGOSACCHARIDES IN GERM FREE MICE

M. Ortega González, Department of Biochemistry and Molecular Biology II. School of Pharmacy. University of Granada. Granada, Spain

O044 - DEVELOPMENT OF MULTIFUNCTIONAL BAKERY BIO-INGREDIENTS CONTAINING TWO IMPORTANT VITAMINS, FOLATE AND B12

J. Sych, Institute of Food and Beverage Innovation, Zurich University of Applied Sciences, Zurich, Switzerland

O045 - ANTI-INFLAMMATORY EFFECTS OF HYDROALCOHOLIC EXTRACT FROM EUTERPE OLERACEA MART. (AÇAÍ)

J. Daleprane, Department of Basic and Experimental Nutrition, Institute of Nutrition, State University of Rio de Janeiro, Brazil

O046 - COMPARING THE EFFECT OF PROBIOTIC AND CONVENTIONAL YOGHURT CONSUMPTION ON LIPID PROFILE IN PATIENTS WITH NON-ALCOHOLIC FATTY LIVER DISEASE (NAFLD)

S. Nabavi, Students' Research Committee, Faculty of Nutrition, Tabriz University of Medical Sciences, Tabriz, Iran

O047 - ROLE OF POLYPHENOL JUICE DRINKS IN THE PREVENTION OF POSTPRANDIAL INFLAMMATORY STRESS IN HUMANS

M. Serafini, CRA-Ex-INRAN, Italy

O048 - THE EFFECT OF DAILY ORANGE JUICE CONSUMPTION ON BLOOD LIPIDS, IN OVERWEIGHT MEN

I. Macdonald, School of Biomedical Sciences, University of Nottingham, Nottingham, UK

O049 - A FRAXINUS EXCELSIOR L. SEED EXTRACT, FRAXIPURE® HAS FAVORABLE EFFECTS ON GLUCOSE HOMEOSTASIS IN ELDERLY OVERWEIGHT SUBJECTS

J. Flanagan, Naturex Spain S.L. Valencia, Spain

16.00-16.30

T6

Special Lecture

Chair: Ascensión Marcos, Spanish National Research Council (CSIC), Madrid, Spain

Modulation of the gut microbiota by nutrients with prebiotic and probiotic properties

Nathalie Delzenne, Université Catholique de Louvain, Louvain, Belgium

Machuca and Albéniz Rooms

08:00 – 10:00

NPS1-7

T7

Parallel Symposium

IUNS Task Force

The role of nutraceuticals in health along with basic nutrition

Chairs: Vishveshwaraiah Prakash, Council member of IUFFoST and IUNS distinguished scientist of CSIR, India

Olga Martínez, CIBERehd, University of Granada, Granada, Spain

Global nutrient security and nutrient bioavailability

Huib Lelieveld, President of the Global Harmonization Initiative, The Netherlands

Ancient wisdom and nutraceuticals - International perspective

Lekh R. Juneja, Taiyo Kagaku Co., Ltd., Japan

Drug-induced nutrient depletion: Unmet clinical need or label warning?

Maruthi Prasad Palthur, Indigene Pharmaceuticals, Inc, Los Angeles, New Jersey, USA.

Mapping Fruit, Vegetable and Phytonutrient Consumption Globally
Yumei Li, Group Leader, Supplement Product Development, Amway Corporation, USA

11.30 – 13.30
PS1-7
T7 – 7.6

Parallel Symposium

Cultural differences in diet and nutrition across Europe. Impact on health (FENS)

Chairs: Ascensión Marcos, President of FENS, Spanish National Research Council (CSIC), Madrid, Spain
Denis Lairon, Vice President of FENS

Is the Mediterranean diet the best one in Europe?
Marisa Porrini, Department of Food, Environmental and Nutritional Sciences, University of Milan, Milan, Italy

Does local diet lead to a more sustainable diet?
Inga Thorsdottir, School of Health Sciences, University of Iceland, Reykjavik, Iceland

Diet and health in the middle of Europe.
Heiner Boeing, Department of Epidemiology, German Institute of Human Nutrition Potsdam-Rehbruecke, Potsdam, Germany

Nutrition and politic - eastern countries' effect of the transformation
Małgorzata Schlegel-Zawadzka, Institute of Public Health, Jagiellonian University Medical College, Krakow, Poland

14.30-16.00
T7

Oral Communications

Chairs: Anura V. Kurpad, St John's Medical College, Bangalore, India
Theodora Mourathidou, European Commission, Joint Research Centre, Institute for Health and Consumer Protection (IHCP), Public Health Policy Support Unit, Ispra, Italy

O050 - RELAPSES FROM ACUTE MALNUTRITION IN A COMMUNITY-BASED MANAGEMENT PROGRAM IN BURKINA-FASO

Y E. Somasse, Ecole de Santé Publique, Université Libre De Bruxelles, Brussels, Belgium

O051 - NATIONAL DIETARY SURVEY (NDS): FAMILIAL AGGREGATION OF DIETARY PATTERNS IN BRAZIL

E. Yokoo, Institute of Community Health of Fluminense Federal University, Niterói, Rio de Janeiro, Brazil

O052 - THE MEDITERRANEAN DIET IMPROVES THE LOW-DENSITY LIPOPROTEIN PARTICLE SIZE PHENOTYPE IN MEN WITH METABOLIC SYNDROME

C. Richard, Institute of Nutrition and Functional Foods, Laval University, Quebec, Quebec, Canada

O053 - IMPACT OF FORTIFIED FOODS DURING LAST DECADE IN THE NETHERLANDS

C. Van Rossum, National Institute For Public Health And The Environment (RIVM), Bilthoven, The Netherlands

O054 - FOOD SECURITY AND NUTRITIONAL STATUS OF FISHING COMMUNITIES IN THE BOLIVIAN AMAZON BASIN

S. Baker French, Faculty of Land and Food Systems, University Of British Columbia, Vancouver, BC, Canada

O055 - WEIGHT OF MODERNITY PART II: THE NUTRITION AND HEALTH IMPLICATIONS OF THE DISAPPEARING AUSTRALIAN DESSERT

C. Banwell, National Centre for Epidemiology and Population Health, Australian National University, Canberra, Australia

O056 - DIETS OF MALIAN AND MOROCCAN PEOPLE LIVING IN THEIR HOME COUNTRIES AND IN FRANCE AND ITS ASSOCIATION WITH ECONOMIC STATUS

S. Fortin, UMR 204 Nutripass, IRD-UM2-UM1 - Institut De Recherche Pour Le Développement (IRD), Montpellier, France

O057 - UPGRADE ON THE NUTRITIONAL TRANSITION IN BOLIVIA

F J A. Perez-Cueto, Aalborg University, Meal Science and Public Health Nutrition Research Unit (MENU), Copenhagen NV, Denmark

16.00-16.30

T7

Special Lecture

Chair: Alan Jackson, Continuous Update Project, University of Southampton, Southampton, UK

Maternal nutrition and birth outcomes

Zulfiqar Bhutta, The Aga Khan University, Pakistan

Room D

08.00 – 10.00

NPS1-8

T8 – 8.1

Parallel Symposium

IUNS Task Force

IMAPP (Intake, Monitoring and Program Planning): Software nutrient intake data

Chairs: Lindsay Allen, USDA, ARS Western Human Nutrition Research Center, Davis, CA, USA

Emilio Martínez de Victoria, Institute of Nutrition and Food Technology, University of Granada, Granada, Spain

Intake, monitoring and planning program (IMAPP) – what are its capabilities?

Alicia Carriquiry, Iowa State University, USA

Using the IMAPP software; information required for optimal application

Suzanne Murphy, University of Hawaii, USA

Harmonizing micronutrient recommendations world-wide
Lindsay Allen, USDA, ARS Western Human Nutrition Research Center, Davis, CA, USA

Application of the IMAPP for planning, monitoring and evaluation of flour fortification programs
Helena Pachon, the Flour Fortification Initiative, Emory University, Atlanta, GA, Estados Unidos

Establishing desirable fortificant levels for calcium, iron and zinc in foods for infant and young child feeding: Examples from three Asian countries
Rosalind Gibson, Department Human Nutrition, University Of Otago, Dunedin, New Zealand

11.30 – 13.30

PS1-8

T8 – 8.1

Parallel Symposium

Food-based approaches to improve multiple micro-nutrient deficiencies and protein quality

*Chairs: Suzanne Murphy, University of Hawaii, USA
Miguel Navarro, Department of Nutrition and Food Sciences, University of Granada, Spain*

Introduction and overview of global micro-nutrient deficiency and protein quality
Charlotte G. Neumann, Fielding School of Public Health and David Geffen School of Medicine, UCLA, USA

Dietary approaches to diet quality improvement
Suzanne Murphy, University of Hawaii, Hawaii, USA

Complementary feeding recommendations from locally available foods
Umi Fahmida, University of Indonesia, Indonesia

Effect of food-based supplement prior to and during pregnancy on birth weight and prematurity in rural Vietnam (vinavac study)
Tu Ngu, Vietnam Nutrition Association, Vietnam

Meat intervention in Chinese infants
Nancy Krebs, University of Colorado, Denver, USA

Food-based approaches in Ethiopia
Barbara Stoecker, Oklahoma State University, USA

Use of omena fish in Kenya,
Constance Gewa, George Mason University, USA

Community interventions for dietary improvement in Ghana
Grace S. Marquis, McGill University and Esi Colecraft, University of Ghana, Ghana

Meat vs. soy biscuit intervention trial in HIV drug naïve Kenyan women and children

Judy Ernst, University of Indiana, USA

14.30-16.00

T8

Oral Communications

*Chairs: Maria Daniel Vaz de Almeida, Faculty of Nutrition and Food Sciences, University of Porto, Porto, Portugal
Miguel Navarro, Department of Nutrition and Food Sciences, University of Granada, Spain*

O058 - INFLUENCE OF PROXIMATE VALUES ON VITAMIN A STABILITY OF NIGERIAN WHEAT FLOUR AND BREAD

F. Uchendu, National Open University of Nigeria, Lagos

O059 - THE DISTRIBUTION AND CONTENT OF FOUR PURINES IN 600 COMMON FOOD

Y. Yang, Institute of Nutrition and Food Safety, Chinese CDC

O060 - NUTRITIONAL AND TOXICOLOGICAL ANALYSES OF LEAVES AND FRUITS OF SOLANUM MACROCARPON LINN (SOLANACEAE) IN COTONOU (BENIN)

V. Dougnon, Polytechnic School of Abomey-Calavi, Research Laboratory in Applied Biology, University of Abomey-Calavi, Cotonou, Benin

O061 - AN EVALUATION OF THE HEALTH AND ECONOMIC IMPACT OF THE CURRENT NATIONAL POLICY TO ELIMINATE TRANS FAT ACIDS (TFA) IN ARGENTINA

A. Rubinstein, CESCAS, Institute for Clinical Effectiveness and Health Policy, Boston, USA

O062 - LEAF PROTEIN CONCENTRATES FROM INDIGENOUS PLANTS FOR IMPROVING NUTRITIONAL QUALITY OF LOCAL FOODS IN THE GARHWAL HIMALAYAS, INDIA

A. Dutta, G.B.Pant University of Agriculture & Technology, Teheri Garhwal, India

O063 - EVALUATION OF MACRO AND MICRO NUTRIENT COMPOSITION ON SOME PROCESSED LESSER KNOWN GREEN LEAFY VEGETABLES IN SOUTH EAST NIGERIA

O. Grace Taiwo Olawale, University of Nigeria Nsukka, Nigeria

O064 - THE HIGHER THE INTAKE OF PROCESSED AND ULTRA-PROCESSED FOOD PRODUCTS, THE LOWER THE AMOUNT OF FRUITS IN THE BRAZILIAN DIET.

A P. Martins, Núcleo de Pesquisas Epidemiológicas em Nutrição E Saúde - NUPENS/USP, Brazil

O065 - STUNTING AMONG CHILDREN UNDER TWO IN RURAL NEPAL: THE ROLE OF WOMEN'S EMPOWERMENT IN AGRICULTURE

K. Cunningham, Department of Population Health, London School of Hygiene and Tropical Medicine, London, UK

16.00-16.30

Special Lecture

T8

Chair: Ruth Charrondiere, FAO, Rome, Italy

**Assessing and improving the quality of food composition databases
for nutrition and health applications**

Paul Finglas, Institute of Food Research, UK

Tuesday, September 17th

Andalucía Rooms

08.00 – 10.00

PS2-9

T1 – 1.4

Parallel Symposium

Biomarkers of nutrition for development: An overview (BOND)

Chairs: Daniel J Raiten, U.S. National Institutes of Health, Bethesda, MD USA

Ian Darnton-Hill, University of Sydney, Sydney, Australia

BOND overview and summary of expert panel reports

Daniel J Raiten, Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD), National Institutes of Health (NIH)

Demo of BOND website and query based system

Kripa Raghavan, Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD), National Institutes of Health (NIH)

Addressing cross-cutting issues

Fayrouz Ashour, Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD), National Institutes of Health (NIH)

Roadmap for BOND: A Panel Discussion and interaction with the audience

Ian Darnton-Hill, University of Sydney, Sydney, Australia

BOND overview and summary of expert panel reports

11.30 – 13.30

PS2-17

T1 – 1.4

Parallel Symposium

Immunonutrition in health and disease

Chairs: Ascensión Marcos, Spanish National Research Council (CSIC), Madrid, Spain

Roxana Valdés, Center for Research and Graduate Studies in Health Sciences (CIEACS), Faculty of Medicine, Autonomous University of Mexico D.F., Mexico

Administration of polyphenol-enriched nutraceuticals to elderly people and effects on the immune responsiveness

Emilio Jirillo, University of Bari, Bari, Italy

Probiotics as protective agents against Enterobacteria

Gabriela Perdigón, University of Tucumán, Tucumán, Argentina

Geography and the immunoinflammatory processes in overweight and obesity

Roxana Valdés, Centre for Research and Graduate Studies in Health Sciences, Autonomous University of Mexico D.F., Mexico D.F., Mexico

Immunomodulatory role of mother's milk

Jorge Mujico, Spanish National Research Council (CSIC), Madrid, Spain

14.30-16.00

T1

Oral Communications

Chairs: Lynette Ferguson, University of Auckland, Auckland, New Zealand

Pedro González Muniesa, Department of Nutrition, Food Science and Physiology, University of Navarra, CIBER Fisiopatología de la Obesidad y Nutrición (CIBERObn), Pamplona, Navarra, Spain

O066 - TOTAL ENERGY AND SATURATED FAT INTAKE MODULATE THE ASSOCIATION BETWEEN AN OBESITY GENETIC RISK SCORE AND BMI

P. Casas Agustench, Nutrition and Genomic Laboratory, Jean Mayer United States Department of Agriculture Human Nutrition Research Center on Aging at Tufts University, Boston, MA, USA

O067 - OBESITY IN ADOLESCENTS FROM SOUTH OF EUROPE VERSUS CENTER-NORTH OF EUROPE: ROLE OF PHYSICAL ACTIVITY, DIET AND GENETICS

F B. Ortega, Department of Physical Educacion and Sports, Faculty of Sport Sciences, University of Granada, Granada, Spain

O068 - RIBOFLAVIN LOWERS BLOOD-PRESSURE IN HYPERTENSIVE 'S WITH THE MTHFR 677TT GENOTYPE

M. Ward, Northern Ireland Centre for Food and Health, University of Ulster, Coleraine, N Ireland

O069 - CHRONO-NUTRITION: MOLECULAR MECHANISM OF DISRUPTION OF LIVER CLOCK BY IRREGULAR FEEDING

H. Oda, Laboratory of Nutritional Biochemistry, Nagoya University

O070 - DIETARY LOW PROTEIN COMBINED WITH HIGH FAT INDUCES ABDOMINAL FAT ACCUMULATION IN RATS

L. Otani, Food for Life, Organization for Interdisciplinary Research Projects, The University of Tokyo, Japan

O071 - THE ANTI-PROLIFERATIVE EFFECT OF BOWMAN-BIRK INHIBITORS ON HT29 COLON CANCER CELLS IS ASSOCIATED WITH THE INHIBITION OF SERINE PROTEASES

A. Clemente, Department of Physiology and Biochemistry of Animal Nutrition, Estacion Experimental Del Zaidin (CSIC), Granada, Spain

O072 - ALDOSE REDUCTASE (AR) ACTIVITY IN RBCS & AR ACTIVITY AND EXPRESSION IN TUMORS OF HUMAN CANCER SUBJECTS

U. Putcha, Division of Pathology, National Institute Of Nutrition, Hyderabad, Andhra Pradesh, India

O073 - INFLUENCE OF DIET ON COLONIC FERMENTATION AND ENDOGENOUS FORMATION OF N-NITROSO COMPOUNDS

S W. Gratz, Rowett Institute of Nutrition and Health, University of Aberdeen, UK

16.00-16.30
T1

Special Lecture
Chair: Linda Lovegrobe

Challenges for molecular nutrition research
Mike Gibney, University College Dublin, Dublin, Ireland

Machado and Picasso Rooms

08.00 – 10.00
PS2-10
T2 – 2.5

Parallel Symposium
Energy balance and active living
(ILSI North America and ILSI Europe)
Chairs: James O. Hill, Anschutz Health and Wellness Center, University of Colorado Anschutz Medical Campus, Denver, USA
Marcela González-Gross, Universidad Politécnica de Madrid, Madrid, Spain

Perspective on the Influence of diet/food consumption on energy balance
Gregorio Varela Moreiras, Universidad CEU San Pablo, Madrid, Spain

Complexity of methodologies for studying energy balance
David Allison, University of Alabama, Birmingham, LA, USA

Physical activity: impact on mortality and morbidity
Steven Blair, Arnold School of Public Health, University of South Carolina, Columbia, USA

Perspective on the influence of physical activity on energy balance
John Blundell, Institute of Psychological Sciences, University of Leeds, Leeds, UK

11.30 – 13.30
PS2-18
T2 – 2.1

Parallel Symposium
Healthy life style promotion
Chairs: Jonatan Ruiz, University of Granada, Granada, Spain
Francisco B. Ortega, Department of Physical Education and Sports, Faculty of Sport Sciences, University of Granada, Granada, Spain

Lifestyle interventions on weight loss and cardiometabolic risk factors
Bret H. Goodpaster, University of Pittsburgh, PA, USA

Combined effect of exercise and diet on fat mass and leptin resistance
José L Calbet, Universidad de las Palmas de Gran Canaria, Las Palmas de Gran Canaria, Spain

Dose response effect of aerobic vs resistance training: Evidence from randomized controlled trials
Steven N. Blair, University of South Carolina, USA

Gene × healthy lifestyle interactions in type 2 diabetes
Paul Franks, Genetic & Molecular Epidemiology Unit, Clinical Research Center, Skåne University Hospital, Lund University, Malmö, Sweden

14.30-16.00

T2

Oral Communications

*Chairs: Antonio Sánchez Pozo, University of Granada, Granada, Spain
Francisco B. Ortega, Department of Physical Education and Sports, Faculty of Sport Sciences, University of Granada, Granada, Spain*

O074 - MATERNAL OBESITY, PRE-PREGNANCY AND GESTATIONAL DIABETES AND IMPACT ON BIRTH SIZE OF OFFSPRING, AUSTRALIA
P H. Lahmann, School of Population Health, University of Queensland, Herston Road, Herston, Australia

O075 - LOW OMEGA-3 INDEX IN PREGNANCY IS A POSSIBLE BIOLOGICAL RISK FACTOR FOR POSTPARTUM DEPRESSION
M W. Markhus, National Institute of Nutrition and Seafood Research (NIFES), Bergen, Norway

O076 - EFFICACY OF DRIED AMARANTH LEAVES (AMARANTHUS CRUENTUS) CONSUMPTION ON VITAMIN A, IRON AND ZINC OF CHILDREN IN KAJIADO COUNTY, KENYA
P. Chege, Department of Food, Nutrition and Dietetics, Kenyatta University, Kenya

O077 - FIRST TRIMESTER FOLIC ACID SUPPLEMENTATION ENHANCES FOLATE STATUS THROUGHOUT PREGNANCY AND REDUCES THE EFFECT OF THE MTHFR 677C>T POLYMORPHISM.
O. Bueno, Area of Preventive Medicine and Public Health, Faculty of Medicine and Health Sciences, Universitat Rovira i Virgili (URV), IISPV, Reus, Spain

O078 - THE DIETARY PATTERNS OF MOTHERS DURING PREGNANCY, THEIR CHILD AT AGE FIVE YEARS AND CHILD WEIGHT STATUS.
C. Murrin, School of Public Health, Physiotherapy, and Population Science, University College Dublin, Dublin, Ireland

O079 - CELL PHONE BASED PEER COUNSELING TO SUPPORT EXCLUSIVE BREASTFEEDING IS ASSOCIATED WITH MORE FREQUENT HELP AND DECREASED BREASTFEEDING PROBLEMS
E. Kamau-Mbuthia, Department of Human Nutrition, Egerton University, Njoro, Kenya

O080 - EFFECT OF BREASTFEEDING PATTERN ON GROWTH AND MOTOR MILESTONE DEVELOPMENT OF INFANTS ATTENDING BABY CLINIC IN A NIGERIAN TEACHING HOSPITAL
H. Ene-Obong, Department of Biochemistry (Nutrition Unit), University of Calabar, Calabar, Cross River State, Nigeria

O081 - THE DIETARY EFFECT OF SERVING SCHOOL MEALS BASED ON THE NEW NORDIC DIET – A RANDOMISED CONTROLLED TRIAL IN DANISH CHILDREN

R. Andersen, Division Of Nutrition, National Food Institute, Technical University of Denmark, Denmark

O194 - TOWARD GUIDELINES FOR MATERNAL AND INFANT NUTRITION TO INFLUENCE LONG-TERM HEALTH OF THE OFFSPRING: THE PAST AND FUTURE OF ILSI EUROPE WORK ON METABOLIC IMPRINTING

R. Rueda, Department of Research and Development, Abbott Nutrition, Granada, Spain

16.00-16.30

T2

Special Lecture

Chair: Luis Moreno, University of Zaragoza, Zaragoza, Spain

Towards body composition reference data for children and adolescents

Jonathan C Wells, University College London, London, UK

Falla Auditorium

08.00 – 10.00

PS2-11

T3 – 3.2

Parallel Symposium

Global challenges in maternal and child nutrition for today and the future

*Chairs: Susan Walker, Tropical Medicine Research Institute, The University of the West Indies, Mona Campus, Jamaica
Isabel Polanco, Full Professor of Pediatrics, Autonomous University of Madrid, Madrid, Spain*

Prevalence of maternal and child undernutrition and childhood obesity and consequences for health and human capital

Robert Black, Johns Hopkins Bloomberg School of Public Health, Baltimore, USA

Nutrition-sensitive developments

Marie T. Ruel, International Food Policy Research Institute (IFPRI), Washington DC, USA

What can be done and what will it cost?

Zulfiqar Bhutta, The Aga Khan University and Medical Center, Pakistan

Securing and sustaining the political momentum for addressing malnutrition

Stuart Gillespie, International Food Policy Research Institute (IFPRI), UK

Closing comments

Anna Lartey, University of Ghana, Legon, Ghana

11.30 – 13.30

PS2-19

T3 – 3.2

Parallel Symposium

Confronting the global epidemic of non-communicable diseases: findings from the NHLBI/UHG Global Network

Chairs: Benjamin Caballero, International Health, Johns Hopkins

*Bloombergs School of Public Heatlh Baltimore, USA
Antonio Sanchez-Pozo, University of Granada, Granada, Spain*

The NIH NHLBI/UHG centers of excellence: A model for international research collaboration

Cristina Rabadan-Diehl, NHLBI Office of Global Health, USA

Primary prevention of nutrition-related chronic diseases: Innovative interventions in latin america

Manuel Ramirez-Zea, INCAP Research Center for the Prevention of Chronic Diseases, Guatemala

China rural health initiative – sodium reduction study: A cluster randomized trial on a community-based dietary sodium reduction program

Lijing Yan, China International Center for Chronic Disease Prevention, China

Baseline characteristics of a school based intervention to promote healthy diet in Sousse, Tunisia

Hassen Ghannem, University Hospital FarhatHached, Tunisia

14.30-16.00

T3

Oral Communications

Chairs: Inge Huybrech, International Agency for Research on Cancer, Lyon, France

Jonatan Ruiz, University of Granada, Granada, Spain

O082 - PRESCHOOL FOOD AND DRINK PROVISION AND CONSUMPTION IN EARLY YEARS EDUCATION AND CARE SETTINGS IN ENGLAND

M. Nelson, Children's Food Trust, Sheffield, UK

O083 - INTAKE OF WHOLE GRAINS AND INCIDENCE OF GASTRIC AND OESOPHAGEAL CANCER IN THE HELGA COHORT

G. Skeie, Department Of Community Medicine, University Of Tromsø, Tromsø, Norway

O084 - PHYSICAL ACTIVITY LEVELS AMONG COLOMBIAN ADULTS: INEQUALITIES BY SEX AND SOCIOECONOMIC STATUS

S. González, Department of Public Health, School of Medicine, Universidad de los Andes, Bogotá, Colombia

O085 - CONSUMPTION OF ULTRA-PROCESSED PRODUCTS IS ASSOCIATED WITH OBESITY IN ADOLESCENTS AND ADULTS IN BRAZIL

M L C. Louzada, School of Public Health/University of Sao Paulo, Brazil

O086 - COMPARISON OF MUAC AND PERCENT WEIGHT GAIN AS DISCHARGE CRITERION IN A LARGE TFP PROGRAM IN BURKINA FASO - 2007-2011

S. Cohuet, Epicentre Medecins Sans Frontieres, France

O087 - DAILY SODIUM CONSUMPTION AND CARDIOVASCULAR MORTALITY IN GENERAL POPULATION. SYSTEMATIC REVIEW AND META-ANALYSIS OF PROSPECTIVE STUDIES
R. Poggio, Institute for Clinical Effectiveness and Health Policy (IECS), Buenos Aires, Argentina

O088 - DIETARY PROTEIN INTAKE AND THE INCIDENCE OF TYPE 2 DIABETES IN EUROPE: THE EPIC-INTERACT CASE-COHORT STUDY
M. van Nielen, Division of Human Nutrition, Wageningen University, Wageningen, The Netherlands

O089 - LOW DIETARY DIVERSITY IS ASSOCIATED WITH CHILD STUNTING IN RURAL ETHIOPIA
E. Custodio, Centro Nacional de Medicina Tropical, Instituto de Salud Carlos III, Madrid, Spain

16.00-16.30
T3

Special Lecture
Chair: Mikael Fogelholm, University of Helsinki, Finland

Energy balance and obesity
James O. Hill, Anschutz Health and Wellness Center, University of Colorado Anschutz Medical Campus, USA

Lorca Auditorium

08.00 – 10.00
PS2-12
T4 – 4.3

Parallel Symposium
Food, nutrition, physical activity and cancer – Keeping the evidence current: WCRF/AICR Continuous Update Project (CUP) - (WCRF)
Chairs: Alan Jackson, Continuous Update Project, University of Southampton, UK
Marieta Fernández, Centre of Biomedical Research, University of Granada, Spain

Evidence based recommendations for prevention of cancer and other chronic diseases the 2007 and 2009 WCRF/AICR Reports
Martin Wiseman, Continuous Update Project WCRF International, UK

The WCRF/AICR Continuous Update Project – Aims and Process
Teresa Norat, Continuous Update Project WCRF International, UK

The WCRF/AICR Continuous Update Project –Systematic Reviews on Nutrition, Physical Activity and Health Outcomes in Cancer Survivors
Anne McTiernan, Fred Hutchinson Cancer Research Center, USA

The WCRF/AICR Continuous Update Project-Systematic Reviews of Animal and Human Mechanistic Studies in Relation to Food, Nutrition, Physical Activity and Cancer
Martin Wiseman, Continuous Update Project WCRF International, UK

WCRF/AICR Continuous Update Project (CUP) & Future Implications
Alan Jackson, Continuous Update Project, University of Southampton, UK

10.30 – 11.30

Plenary Lecture

Chair: Emorn Wasantwisut, Institute of Nutrition, Mahidol University, Bangkok, Thailand

Micronutrient Research, Programs and Policy: From Meta-analyses to Metabolomics

Lindsay Allen (E.V. McCollum lecture), USDA, ARS Western Human Nutrition Research Center, Davis, CA, USA

11.30 – 13.30

PS2-20

T4 - 4.1

Parallel Symposium

Tackling obesity in pre-school children: First results from the ToyBox Study

*Chairs: John J Reilly, Strathclyde University, Scotland
Concepción Aguilera, University of Granada, Spain*

Preschool childhood obesity: A review of existing studies and the first results of the ToyBox-study

Yannis Manios, Harokopio University, Athens, Greece

Pre-school children's physical activity and sedentary behaviours
Ilse De Bourdeaudhuij, University of Ghent, Belgium

Pre-school children's food intake and snacking habits and their determinants
Luis Moreno, University of Zaragoza, Zaragoza, Spain

Development and implementation of the ToyBox intervention
Berthold Koletzko, Ludwig Maximilians University, Munich, Germany

14.30-16.00

T4

Oral Communications

*Chairs: Theodora Hanjieva-Darlenska, Department of pharmacology and toxicology, Faculty of Medicine, Medical University, Sofia, Bulgaria
Fermin Sanchez de Medina, Department of Pharmacology, University of Granada, Granada, Spain*

O090 - DNA DAMAGE AND CHROMOSOMAL STABILITY IN HEALTHY AND DIABETIC INDIVIDUALS AND THE IMPACT OF VEGETABLES AND WALNUT OIL

K H. Wagner, Department of Nutritional Sciences, University of Vienna, Vienna, Austria

O091 - IMPACT OF RELATIVE PROTEIN INTAKE DURING SEVERE ENERGY RESTRICTION ON BODY COMPOSITION AND RESTING ENERGY EXPENDITURE IN OBESE ADULTS

N. Byrne, School of Exercise and Nutrition Sciences & Institute of Health and Biomedical Innovation, Queensland University of Technology, Brisbane, Queensland, Australia

O092 - NUTRITIONAL STUDY WITH FUNCTIONAL OMEGA-3 ENRICHED MILK IN CELIAC DISEASE PATIENTS. THE CIBOM STUDY.

*J. Fonollá, Departamento de Nutrición. Facultad de Farmacia.
Universidad Complutense de Madrid, Spain*

O093 - EFFECTS OF TWO ENERGY-RESTRICTED DIETS DIFFERING ON
PROTEIN CONTENT ON THE INFLAMMATION STATE OF OBESE
SUBJECTS WITH METABOLIC SYNDROME FEATURES

*P. Lopez-Legarrea, Department of Nutrition, Food Science and
Physiology, University of Navarra, Spain*

O094 - INCREASING ENERGY AND ZINC INTAKES TO LEVEL
RECOMMENDED BY WHO IMPROVE FAT-FREE MASS BUT NOT ZINC
STATUS IN HIV/AIDS PEOPLE

*A. Badiane, Laboratoire De Nutrition, Département de Biologie
Animale, Faculté des Sciences et Techniques, Université Cheikh Anta
Diop De Dakar, Senegal*

O095 - LIFESTYLE RECOMMENDATIONS FOR CANCER PREVENTION AND
SURVIVAL AFTER DIAGNOSIS OF COLORECTAL CANCER: RESULTS FROM
THE EPIC STUDY

D. Romaguera, Research Unit, University Hospital Son Espases, Spain

O096 - DID THE CYCLONE "SENDONG" IN PHILIPPINES AFFECT
MALNUTRITION LEVELS OF CHILDREN IN THE PHILIPPINES?

E. Rivero, Acción Contra El Hambre, Madrid, Spain

O097 - DIETARY CAROTENOIDS AND BREAST CANCER RISK AMONG
CHINESE WOMEN

*C. Zhang, Department of Medical Statistics and Epidemiology, Sun Yat-
Sen University, Guangzhou, People's Republic of China*

16.00-16.30

T4

Special Lecture

*Chair: Rosaura Leis, Lecturer Department of Pediatrics, University of
Compostela, Spain*

Nutritional rickets around the world

Gail Goldberg, MRC Human Nutrition Research, Cambridge, UK

Room B

08.00 – 10.00

PS2-13

T5 – 5.4

Parallel Symposium

Harmonization of human zinc requirements and country experiences in
assessing population zinc status

Chairs: Rosalind Gibson, University of Otago, New Zealand

*Emorn Wasantwisut, Institute of Nutrition, Mahidol University,
Bangkok, Thailand*

Harmonization of estimates of human zinc requirements, including
safe upper intake levels

Kenneth Brown, University of California, USA

Recommendations for assessing individual zinc status and population
risk of zinc deficiency (BOND, EURRECA and IZiNCG conclusions)

including updated results of national food balance sheets to estimate the risk of inadequate dietary zinc intake

K Ryan Wessells, University of California, USA

National experience in assessing the risk of zinc deficiency – Pakistan
Zulfiqar Bhutta, Aga Khan University, Pakistan

Prevalence of zinc deficiency in Mexican children and women of childbearing age

Silvador Villalpando, Instituto Nacional de Salud Pública, Cuernavaca, Mexico

National experience in assessing the risk of zinc deficiency – Cameroon
Reina Engle-Stone, University of California, Davis, USA

11.30 – 13.30
PS2-21
T5 – 5.1

Parallel Symposium

Assessment of body composition from birth to 2 years

Chairs: Ricardo Uauy, University of Chile, Santiago de Chile, Chile
John Shepherd, University of California, San Francisco, USA

Structure and function - the importance of body composition assessment during early life

Alan Jackson, University of Southampton, Southampton, UK

Body composition measurement techniques in infants

Kenneth Ellis, Baylor College of Medicine, Houston, USA

Standardization of body composition from birth to 2 years of age - an international initiative

Lena Davidsson, Kuwait Institute for Scientific Research, Kuwait Safat, Kuwait

Quality control issues related to body composition assessment

Steve Wootton, University of Southampton, Southampton, UK

14.30-16.00
T5

Oral Communications

Chairs: Roxana Valdés, Valdés, Center for Research and Graduate Studies in Health Sciences (CIEACS), Faculty of Medicine, Autonomous University of Mexico D.F, Mexico
Luis Gracia, Children's Health and Exercise Research Centre, College of Life and Environmental Sciences, Sport & Health Sciences, University of Exeter, Devon, UK

O098 - ZINC ABSORPTION FROM RICE IS SIMILAR WHEN ZINC IS INTRINSICALLY INCREASED THROUGH BIOFORTIFICATION OR EXTRINSICALLY ADDED AS ZNSO₄

M. Brnic, Laboratory of Human Nutrition, Institute of Food, Nutrition and Health, ETH Zurich, Switzerland

O099 - SEX DIFFERENCES OF VITAMIN E METABOLISM IN RATS.

A. Takenaka, Department of Agricultural Biochemistry, School of Agriculture, Meiji University, Kawasaki, Kanagawa, Japan

O100 - IODINE EXCRETION HAS DECREASED IN DENMARK DURING THE LAST 5-6 YEARS

L B. Rasmussen, Division of Nutrition, National Food Institute, Technical University of Denmark

O101 - EVALUATION OF ZINC STATUS AND COMMUNITY PERCEPTIONS IN PAKISTAN: THE NATIONAL NUTRITION SURVEY 2011

S. Soofi, Department of Paediatrics & Child Health, Aga Khan University, Pakistan

O102 - DEFINING OBESITY USING BIOLOGICAL END POINT IN CHILDREN

V P. Wickramasinghe, Department of Paediatrics, University of Colombo, Sri Lanka

O103 - RIBOFLAVIN STATUS IS INVERSELY ASSOCIATED WITH HOMOCYSTEINE AND DETERMINES THE EFFECT OF THE MTHFR 677C>T POLYMORPHISM ON HOMOCYSTEINE DURING PREGNANCY

C J. García-Minguillán, Area of Preventive Medicine and Public Health, Faculty of Medicine and Health Sciences, Universitat Rovira I Virgili, IISPV, Reus, Spain

O104 - AN INADEQUATE FRUIT AND VEGETABLE INTAKE HAS ONLY A SMALL EFFECT ON VITAMIN STATUS IN EUROPEAN ADOLESCENTS- THE HELENA STUDY

C. Breidenassel, Department of Nutrition and Food Science, University of Bonn, Bonn, Germany

O105 - CLASSIFICATION OF BODY MASS INDEX OF RURAL AND PERI-URBAN SCHOOL CHILDREN AND ADOLESCENTS IN NIGERIA USING TWO INTERNATIONAL STANDARDS

H. Ene-Obong, Department of Biochemistry (Nutrition Unit), University of Calabar, Calabar, Cross River State, Nigeria

16.00-16.30
T5

Special Lecture

Chair: Angel Gil, University of Granada, Granada, Spain

Developing suitable methods of nutritional status assessment, a continuous challenge

Ibrahim Elmadfa, University of Vienna, Austria

Room C

08.00 – 10.00
PS2-14
T6 –6.1

Parallel Symposium

Dietary reference values for DNA damage prevention

Chairs: Ibrahim Elmadfa, University of Vienna, Austria

Michael Fenech, Preventative Health Flagship, Australia

The concept and relevance of DRVs for DNA damage prevention
Michael Fenech, Nutrigenomics and DNA Damage Diagnostics CSIRO, Preventative Health Flagship, Australia

Vitamins and DNA damage prevention
Ibrahim Elmadfa, University of Vienna, Vienna Austria

Minerals and DNA damage prevention
Lynn Ferguson, University of Auckland, Auckland, New Zealand

Phytonutrients and DNA damage prevention
Andrew Collins, University of Oslo, Oslo, Norway

11.30 – 13.30

PS2-22

T6 – 6.1

Parallel Symposium

The role of nutrition in healthy ageing: Insight from the CHANCES Project

*Chairs: Antonia Trichopoulou, University of Athens Medical School, Hellenic Health Foundation, Athens, Greece
Gregorio Varela Moreiras, Universidad CEU San Pablo, Spain*

Nutrition and osteoporotic fractures in the elderly: Insight from the CHANCES project
Vasiliki Benetou, University of Athens Medical School, Athens, Greece

Biomarkers and nutrition
Eugène HJM Jansen, National Institute for Public Health and the Environment, Bilthoven, The Netherlands

Association of height and telomere length in the CHANCES consortium
Linda Broer, Erasmus University Medical Centre, Rotterdam, The Netherlands

25-hydroxyvitamin D levels and mortality
José Manuel Ordóñez Mena, German Cancer Research Centre, Heidelberg, Germany

14.30-16.00

T6

Oral Communications

*Chairs: Manuel Hernández, Head of the Biochemistry and Physiology Department, Institute of Nutrition and Food Hygiene, Havana, Cuba
Maria del Puy Portillo, Department of Nutrition and Food Sciences, Universidad del País Vasco, Vitoria, Spain*

O106 - FRUIT MACROANTIOXIDANTS, A NEW TYPE OF MAJOR PLANT FOOD CONSTITUENTS, SIGNIFICANTLY CONTRIBUTE TO THE INTAKE OF ANTIOXIDANTS IN THE DIET

J. Pérez-Jiménez, Dpt. Metabolism and Nutrition, Institute of Food Science, Technology and Nutrition (ICTAN-CSIC), Madrid, Spain

O107 - EFFECT OF A DIETARY SUPPLEMENT IN BODY COMPOSITION IN PERIMENOPAUSAL WOMEN

V. Calabria Torres, Universidad Autónoma De Madrid, Spain

O108 - EFFECTS OF SEAWEED-RESTRUCTURED PORK DIETS ENRICHED WITH CHOLESTEROL ON RAT LIVER HISTOLOGICAL PARAMETERS

A R. Schultz Moreira, Departamento de Nutrición y Bromatología I (Nutrición); Facultad de Farmacia, Universidad Complutense de Madrid, Madrid, Spain

O109 - PRECLINICAL EVALUATION OF THE IMMUNOMODULATORY EFFECT OF LACTOBACILLUS PLANTARUM 3547 ON HUMAN MACROPHAGES AND OBESE WISTAR RATS.

M. Tabernero, Experimental Surgery Department, Hospital La Paz Health Research Institute, Madrid, Spain

O110 - LACTOBACILLUS REUTERI DSM 17938 AND LACTOBACILLUS CASEI CRL 431 MODESTLY INCREASE GROWTH, NOT IRON AND ZINC STATUS, AMONG INDONESIAN CHILDREN

R. Agustina, SEAMEO RECFON (Southeast Asian Ministers of Education Organization Regional Center For Food and Nutrition), University of Indonesia, Indonesia

O111 - CONSUMPTION OF A POLYPHENOL-RICH ORANGE JUICE IMPROVES ENDOTHELIAL BIOMARKERS IN OVERWEIGHT AND OBESE ADULTS.(BIONAOS STUDY)

O. Rangel, Department of Biochemistry and Molecular Biology II, Institute of Nutrition and Food Technology Jose Mataix , Biomedical Research Centre, University of Granada, Granada, Spain

O112 - TEMPE AND TOFU FLOUR MAY HAVE POSITIVE EFFECT ON COGNITIVE FUNCTION

A. Kridawati, Faculty of Health Sciences, University Of Respati Indonesia, Indonesia

O113 - EFFCET OF ADMINISTRATION OF CARNITINE ON THE CARDIAC AND ERYTHROPOIETIC FUNCTION OF CARNITINE DEFICIENT PATIENTS.

Y. Aoki, Institute of Medullasin, Florida, USA

16.00-16.30

T6

Special Lecture

Chair: Mari Nieves García, Instituto Venezolano de Investigaciones Científicas (IVIC), Venezuela

Iron nutrition of infants - what is too little and what is too much?

Bö Lönnerdal, University of California, Davis, USA

Machuca and Albéniz Rooms

08.00 – 10.00

PS2-15

T7 – 7.1

Parallel Symposium

Linking food security and nutrition education to improve infant and young child feeding

Chairs: Barbara Burlingame, FAO Rome

María Puy Portillo, Department of Nutrition and Food Sciences, Universidad del País Vasco, Vitoria, Spain

Agriculture-nutrition linkages: potentials and limitations for improving young children's diets through local foods

Ellen Muehlhoff, FAO, Rome

Experience and lessons from Trials of Improved Practices: Consultative research with caregivers

Theresa Jeremias, FAO, Rome

Scaling up food security and Nutrition Education: opportunities and constraints

Gina Kennedy, FAO, Rome

Challenges of Applied Nutrition Research

Michael Krawinkel/Irmgard Jordan, Institute of Nutritional Sciences, Justus Liebig University, Germany

(Machuca)
11.30 – 13.30
PS2-23A
T7 – 7.6

Parallel Symposium

China's nutrition transition: Implications of rapid social and economic change for non-communicable disease risk

Chairs: Barry M. Popkin, University of North Carolina Chapel Hill, NC, USA

Zhai Fengying, Chinese Nutrition Society, FenghuaHaojing, Beijing, China

Introduction: The China Health and Nutrition Survey

Barry Popkin, University of North Carolina Chapel Hill, NC, USA

China in the 1950-1982 period—a period of scarcity, a very traditional lifestyle, and extensive undernutrition

Shufa Du, University of North Carolina, Chapel Hill, USA

The evolution of the Chinese diet

Fengying Zhai, Chinese Nutrition Society, FenghuaHaojing, Beijing, China

The physical activity transition in China: 1989 to 2011

Huijun Wang, Chinese Center for Disease Control and Prevention, Beijing, China

Obesity dynamics in Chinese children and adults

Penny Gordon-Larsen, University of North Carolina, Chapel Hill, USA

The emergence of cardiometabolic disease risk in Chinese children and adults: Consequences of changing patterns of diet, physical activity, and obesity

Linda Adair, University of North Carolina, Chapel Hill, NC, USA

Synthesis and implications: China's nutrition transition in context of the changes across Asia, Africa, Latin America, and the Middle East

Barry Popkin, University of North Carolina Chapel Hill, NC, USA

(Albéniz)
11.30 – 13.30h
PS2-23B
T7 – 7.6

Parallel Symposium

A global partnership to improve nutrition medicine in Vietnam

The AFINS Partnership: An overview

Carine Lenders, Boston University School of Medicine, USA

Elizabeth Henry, Boston University School of Medicine, USA

Research in clinical nutrition

Nguyen Thi Lam, National Institute of Nutrition, Hanoi, Vietnam

Thomas Ziegler, Emory University, USA

Hospital-based initiatives to improve nutrition medicine

Dinh Thi Kim Lien, Bach Mai Hospital, Hanoi, Vietnam

Lorraine Young, Boston Medical Center, USA

Designing a dietitian education program

Huong Cong Chanh, Hanoi Medical University, Vietnam

Roberta Durschlag, College of Health and Rehabilitation Sciences:

Sargent College, Boston University, USA

Panel Discussion

Representatives from the Abbott Fund Institute for Nutrition Science
(AFINS) Project, USA and Vietnam

14.30-16.00
T7

Oral Communications

*Chairs: Jordi Salas-Salvadó, Rovira i Virgili University, CIBERObn,
Spain*

*Marcela González-Gross, Universidad Politécnica de Madrid,
Madrid, Spain*

O114 - SOCIAL REPRESENTATION OF OBESITY IN A RURAL COMMUNITY
OF MEXICO

T. Ochoa, Health Department, Iberoamerican University, Mexico

O115 - MAJOR DIETARY PATTERNS OF IRANIAN WOMEN AND THEIR
RELATION WITH ETHNICITY AND DURATION OF RESIDENCE IN THE
CAPITAL CITY (TEHRAN).

*A. Rezazadeh, Community Nutrition Department, Faculty of Nutrition
and Food Technology, Shahid Beheshti University of Medical Sciences
and Health Services, Tehran, Iran*

O116 - CONTRIBUTION OF SORGHUM TO ENERGY, IRON AND ZINC
INTAKES OF MOTHERS AND PRESCHOOL CHILDREN IN RURAL BURKINA
FASO

*Y. Martin-Prevel, Institut de Recherche pour le Développement (IRD) -
UMR204 Nutripass IRD,UM2,UM1, France*

O117 - HYDRATION STATUS AND ITS RISK FACTORS AMONG
INDONESIAN ADOLESCENTS AND ADULTS

*H. Hardinsyah, Food and Nutrition Society of Indonesia; and
Department of Community Nutrition, Bogor Agricultural University,
Kampus IPB, Jl Raya Darmaga, Bogor, Indonesia*

O118 - SODIUM AND NUTRIENT DENSITY OF SOME TRADITIONAL
DISHES AS CONSUMED IN NIGERIAN URBAN POPULATION IN RELATION
TO CARDIOVASCULAR DISEASE (CVD)

E A. Udentia, University Of Nigeria, Nsukka, Nigeria

O119 - IDENTIFICATION OF TRADITIONAL FOOD RESOURCES AND
THEIR IMPORTANCE IN A RURAL FARMING COMMUNITY IN
SOUTHWESTERN NIGERIA

*S I. Ejoh, Department of Human Nutrition, Faculty of Public Health,
College of Medicine, University of Ibadan*

O120 - ECONOMIC INEQUALITY AND OBESITY: MULTILEVEL ANALYSIS
OF INDONESIAN COMMUNITIES

*K. Sari, The Center for Public Health Intervention Technology, The
National Institute of Health Research and Development, Indonesian
Ministry of Health, Central Jakarta, Indonesia*

O121 - INADEQUATE ENERGY AND PROTEIN INTAKES HAVE
CONTRIBUTED TO THE HIGH PREVALENCE OF STUNTING IN
INDONESIAN YOUNG CHILDREN

*H. Hadi, Department of Public Health, Faculty of Medicine, University of
Gadjah Mada, Jl. Farmako, Sekip Utara, Yogyakarta , Indonesia*

16.00-16.30

T7

Special Lecture

*Chair: Rekia Belahsen, Chouaib Douikkali University, El Jadida,
Morocco*

*What would it take to ensure optimal growth among children in Africa
Anna Lartey, University of Ghana, Legon, Ghana*

Room D

08.00 – 10.00

PS2-16

T8 – 8.2

Parallel Symposium

IUNS Task Force

Food composition (FAO)

Chairs: Ruth Charrondiere, FAO, Rome, Italy

Suzanne Murphy, University of Hawaii, USA

*Impact of food composition data on nutrient intakes, requirement,
programmes and policies*

Suzanne Murphy, University of Hawaii, USA

The role of food composition data for nutrition labelling

Janice Albert, FAO, Rome, Italy

The correct use of food composition data

Deborah Bastos, São Paulo University, São Paulo, Brazil

The need of new high-quality analytical data on food composition in general and specifically for biodiversity and wild and underutilized foods

T. Longvah, Head Food Chemistry Division, India

Link between food composition, nutrition, agriculture and better food supply to combat malnutrition through food-based approaches

Ruth Charrondiere, FAO, Rome, Italy

11.30 – 13.30

PS2-24

T8 – 8.2

Parallel Symposium

Sugars and health – the controversies continue (EUFIC)

Chairs: Mike Gibney, University College Dublin, Dublin, Ireland

Wim H.M. Saris, Maastricht University and Corporate scientist Human Nutrition, DSM Inc. The Netherlands

Sweetness, hedonic impact and food intake

Graham Finlayson, Institute of Psychological Sciences, University of Leeds, Leeds, UK

Effects of sugars on metabolic health

Luc Tappy, University of Lausanne, Switzerland

Sugars to deal with fatigue during exhausting endurance performance

Fred Brouns, Maastricht University, The Netherlands

14.30-16.00

T8

Oral Communications

Chairs: Godwin Ndossi, Tanzania National Health Research Forum, Tanzania

Begoña Olmedilla, Instituto de Ciencia y Tecnología de Alimentos y Nutrición (ICTAN) - Consejo Superior de Investigaciones Científicas (CSIC)

O122 - CONFLICTING INDICATORS OF FOOD INSECURITY FROM A PILOT STUDY OF WATER, SANITATION, HYGIENE AND NUTRITION INTERVENTIONS IN RURAL WESTERN KENYA

A. Williams, Program in International and Community Nutrition, University of California, Davis, CA, USA

O123 - AVAILABILITY OF NUTRITION SERVICES IN MATERNAL, NEONATAL AND CHILD HEALTH (MNCH) FACILITIES IN BANGLADESH

M. Mridha, International Center for Diarrheal Disease Research, Bangladesh

O124 - COMBATING VITAMIN A DEFICIENCY DISEASES: BUILDING THE EVIDENCE BASE AND PARTNERSHIPS FOR FOOD BASED APPROACHES

J. Low, Regional Office for Sub-Saharan Africa, International Potato Center, Nairobi, Kenya

O125 - DELIVERY OF MICRONUTRIENT POWDER SACHETS THROUGH SALES BY FRONTLINE HEALTH WORKERS ENABLES HIGH REACH, BUT HOUSEHOLD POVERTY CONSTRAINS UPTAKE

R. Rawat, International Food Policy Research Institute (IFPRI), Washington, DC, USA

O126 - UPDATED NUTRIENT DATA ON DANISH BEEF AND VEAL

U. Kehlet, Danish Meat Research Institute, Denmark

O127 - CHARACTERIZATION OF OATS SAFETY IN CELIAC DISEASE IN RELATION TO THE CULTIVAR

M. Silano, Unit of Human Nutrition and Health, Istituto Superiore Di Sanità, Rome, Italy

O128 - HOUSEHOLD WATER ACCESS AND SANITATION AS INDICATORS OF VITAMIN A AND ZINC EFFICACY ON GUT PARASITE RESOLUTION

K. Long, School of Population Health, University of Queensland, Australia

O129 - DETERMINATION OF TOTAL PHENOLICS, ANTHOCYANINS AND ANTIOXIDANT ACTIVITY OF AN ALGERIAN DATE FRUIT VARIETY (DEGLET –NOUR)

Z. Kheira, Department of Biology, Benific microorganisms, functional food and health laboratory (BMFFHL), University of Mostaganem University

16.00-16.30

T8

Special Lecture

Chair: Stefaan de Henaw, Stefaan De Henauw, Ghent University, Ghent, Belgium

Sustainable diets: how nutrition can save the planet

Barbara Burlingame, Food and Nutrition Division, FAO, Rome

Wednesday, September 18th

Andalucía Rooms

08.00 – 10.00

PS3-25

T1 –1.1

Parallel Symposium

New biomarkers for health claims made on food

(BIOCLAIMS)

Chairs: Aldona Dembinska-Kiec, The Jagiellonian University Medical College (JUMC), Krakow, Poland

Lluís Arola, CTNS, Universitat Rovira I Virgili, Tarragona, Spain

Biomarkers of benefit for health claims made on food: This is the challenge

Andreu Palou, Universidad de las Islas Baleares & CIBERObn (Ciber De Fisiopatología de la Obesidad y Nutrición), Spain

Biomarkers of healthy phenotype

Ben Van Omen, TNO Quality of Life (TNO), Zeist, The Netherlands

Stress challenges as tools for biomarker identification

Jaap Keijer, Wageningen Univ, The Netherlands

Peripheral blood cells as source of biomarkers

Paula Oliver / Catalina Picó, University of the Balearic Islands, Spain

Reading the patterns of endogenous damage to the proteins

(Proteomics of damage)

Paul Thornalley/ Naila Rabani, University of Warwick (UWA), Coventry, UK

The carnitine family as biomarkers of metabolic health in the intervention studies using omega 3 and thiazolidinediones

Jan Kopecky, Institute of Physiology, Academy of Sciences of the Czech Republic (ASCS), Prague, Czech Republic

The challenge of validating biomarkers in humans: the Bioclaims approach

Brigitte M. Winklhofer-Roob, Karl-Franzens University of Graz, Austria, and Johannes M. Roob, Medical University of Graz, Austria,

Biomarkers of inflammation: relationship with nutrition and with health outcomes

Philip C. Calder, University of Southampton (USoton), UK

11.30 – 13.30

PS3-33

T1 – 1.4

Parallel Symposium

IUNS Task Force

OMICS technologies with nutritional perspectives

Chairs: Ben van Ommen, TNO, Zeist, The Netherlands

José Alfredo Martínez, Universidad de Navarra, Spain

Nutrigenetics & nutrigenomics: The scope of a new discipline

Raffaele De Caterina, ISNN

Nutrieepigenomics and obesity

José Alfredo Martinez, Universidad de Navarra, Spain

Metabolomics and nutritional applications

Lorraine Brennan, UCD Institute of Food and Health, UCD Dublin, Ireland

Network biology and systems biology applications in nutrition

Marijana Radonjic, TNO, Zeist, The Netherlands

14.30 – 16.30

T1

Debate

Time to introducing complementary foods into the infant diet”

Chair: Bert Koletzko, University of Munich, Germany

Complementary foods should be introduced from the 7th month onwards

Anna Larrey, University of Ghana, Legon, Ghana, West Africa

Complementary foods should be introduced from the 5th month onwards

Mary Fewtrell, University College London, UK

16.00 - 16.30

T1

Special Lecture

Chair: Reynaldo Martorell, Emory University, Atlanta, USA

Early Nutrition and non-communicable diseases in countries of the Middle-East

Nahla Houalla, Dean of the Faculty of Agriculture, American University of Beirut, Lebanon, Beirut

Machado and Picasso Rooms

08.00 – 10.00

PS3-26

T2 – 2.2

Parallel Symposium

Scaling up nutrition to improve infant and young child feeding (IYCF) (Alive & Thrive)

Chairs: Ellen Piwoz, Bill & Melinda Gates Foundation, Washington, DC, USA

Cristina Campoy, University of Granada, Spain

Factors contributing to dramatic increases in exclusive breastfeeding in Bangladesh

Tina G. Sanghvi, Alive & Thrive, FHI 360, Bangladesh

Motivating frontline workers to deliver improved infant and young child nutrition services: A cross-country perspective

Purnima Menon, International Food Policy Research Institute, New Delhi, India

Alternatives to randomized control designs: Evaluation of a mass media campaign where television is universal, lessons from Vietnam
Silvia Alayón, Alive & Thrive, Save the Children, Washington, DC, USA

Evidence linking handwashing to improved child feeding outcomes
Leanne Unicomb, International Centre for Diarrhoeal Disease Research, Dhaka, Bangladesh

(Machado)
11:30-13:30
PS3-34A
T2 – 2.5

Parallel Symposium

Nutrients and exercise performance – What is the evidence behind recent claims of major benefits?

*Chairs: Ian A. Macdonald, University of Nottingham, UK
Francis Stephens, University of Nottingham, UK*

Distinct roles for the effects of L-carnitine supplementation on exercise performance and reducing body fat
Francis Stephens, University of Nottingham, UK

Does protein supplementation increase muscle mass and strength?
Luc van Loon, University of Maastricht, The Netherlands

Mechanisms behind the effects of dietary nitrate supplementation on performance
Jon Lundberg, Karolinska Institutet, Sweden

Is there a role for antioxidants in improving exercise performance?
Jose Calbet, University of Las Palmas de Gran Canaria, Spain

(Picasso)
11.30 – 13.30
PS3-34B
T2 – 2.2

Parallel Symposium

Past and current experiences in leveraging multiple program and partner platforms to scale-up nutrition interventions (The SPRING project)

Chair: Jessica Tilahun, Nutrition Advisor, United States Agency for International Development (USAID), Washintong, USA

Learning from past successes in scaling up integrated nutrition programs to inform future efforts: design and delivery considerations
Christian Winger, USAID's Strengthening Partnerships, Innovation, and Results in Nutrition Globally (SPRING), USA

Using lessons learned from earlier nutrition efforts in Nepal to design a multi-platform national scale integrated nutrition project
Pooja Pandey Rana, HKI Program Implementation, Nepal

Scaling-up nutrition using synergy between health and agriculture platforms Bangladesh.
Yasir Arafat, The SPRING/Bangladesh Project, USA

Building capacity across multiple systems to enhance nutrition outcomes: The ENGINE Project's approach to capacity building in Ethiopia.
Habtamu Fekadu, USAID's ENGINE Project, Ethiopia

14.30 – 16.00

Debate

T2

The best dietary approach to achieve weight loss and weight maintenance

Chair: Dick Atkinson

Role of Protein and Glycaemic Index

Arne Astrup, University of Copenhagen, Denmark

Role of Intermittent Fasting/Low energy diet combined with normal eating

Alex Johnstone, University of Aberdeen, UK

16.00 - 16.30

T2

Special Lecture

Chair: Mauro Fisberg, Department of Pediatrics, Escola Paulista de Medicina, Federal University of Sao Paulo, UNIFESP, Brazil

Genetic engineering/biotechnology and its relevance to pediatric nutrition

Ronald E. Kleinman, Mass General Hospital for Children Chair, Department of Pediatrics Massachusetts General Hospital Charles Wilder Professor of Pediatrics Harvard Medical School

Falla Auditorium

08.00 – 10.00

PS3-27

T3 – 3.6

Parallel Symposium

Community-based programme to prevent obesity: Lessons and perspectives from 20 years of experience (EPODE International Network)

*Chairs: Gregorio Varela, University CEU San Pablo, Madrid, Spain
Susan Jebb, Medical Research Council Human Nutrition unit (HNR), Cambridge, United Kingdom*

Effect of vitamin B12 and n-3 polyunsaturated fatty acids on plasma homocysteine, and other cardiovascular risk factors: A randomized controlled trial

Terry Huang, University of Nebraska Medical Center College of Public Health, Nebraska, USA

How would be defined a Community-Based Programme in 2013?

Boyd Swinburn, The University of Auckland, Auckland, New Zealand

What would be the evaluation framework of a Community-Based Programme in 2013?

Jaap Seidell, VU University of Amsterdam, Amsterdam, The Netherlands

Community-based programmes to prevent obesity

Jean-Michel Borys, EPODE International Network, Brussels, Belgium

EPODE International Network: the world's largest obesity prevention network

Armando Barriguette, EPODE International Network, Brussels, Belgium

11.30 – 13.30

PS3-35

T3 – 3.6

Parallel Symposium

Promoting healthy growth and preventing childhood stunting (WHO)

Chair: Francesco Branca, World Health Organization, Geneva, Switzerland

Promoting healthy growth and preventing childhood stunting – a WHO initiative

Adelheid Onyango, World Health Organization, Geneva, Switzerland

Promising interventions and research areas in complementary feeding and healthy growth promotion

Kim Michaelsen, University of Copenhagen, Denmark

Monitoring Child Growth and Infant and Young Child Feeding practices

Mercedes de Onis, World Health Organization, Geneva, Switzerland

14.30 – 16.30

T3

Panel discussion

Dietary sugars: controversies on relevant scientific findings and health implications

*Chairs: Benjamin Caballero, International Health, Johns Hopkins
Bloombergs School of Public Health Baltimore, USA
Luis Moreno, University of Zaragoza, Zaragoza, Spain*

Epidemiology of sweetener use and their health effects

Frank Hu, Harvard Medical School and Channing Lab, BWH, USA

Effects of fructose on cardiometabolic risk factors.

*John Sievenpiper, Clinical Nutrition and Risk Factor Modification Centre,
St. Michael's Hospital, Toronto, Canada*

Sugar sweetened beverages Consumption and body weight

*David Allison, Nutrition & Obesity Research Center, University of
Alabama at Birmingham*

Lorca Auditorium

08.00 – 10.00

PS3-28

T4 – 4.1

Parallel Symposium

Role of dietary macronutrients on weight management. Role of protein and glycemic index in body weight regulation – Lessons from the Diogenes intervention study

*Chairs: Arne Astrup, University of Copenhagen, Denmark
Wim Saris, Maastrich University Medical Center, The
Netherlands*

*The use of an ad libitum higher-protein, low-glycemic index diet in
overweight children: the Diogenes Study*

*Arne Astrup, Department of Nutrition, Exercise and Sports (NEXS),
Faculty of Science, University of Copenhagen*

Benefits and mechanism of moderately high protein and high fiber
diets in body weight loss and maintenance

José Alfredo Martinez, Universidad de Navarra, Spain

Comparison of intervention and COHORT study of dietary protein in body weight regulation reconciling opposing evidence

Mikkel Zöllner Ankarfeld, Institute of Preventive Medicine, Frederiksberg, Denmark

Can we predict weight loss and maintenance success using the genomics/metabolomics technologies: The Diogenes study

Wim H.M. Saris, Maastrich University Medical Center, The Netherlands

10.30 – 11.30

Plenary Lecture

Chair: Andreu Palou, Universidad de las Islas Baleares & CIBERObn (Ciber De Fisiopatología de la Obesidad y Nutrición), Spain

New powers of brown fat: fighting the metabolic syndrome

Jan Nedergaard, The Wenner-Gren Institute, Stockholm University, Stockholm, Sweden

11.30 – 13.30

PS3-36

T4 – 4.1

Parallel Symposium

ISCOLE: International Study of Childhood Obesity, Lifestyle and the Environment

Chairs: Peter T. Katzmarzyk, Pennington Biomedical Research Center, Baton Rouge, USA

Amelia Marti, Universidad de Navarra, Spain

Introduction and background, rationale and study design of ISCOLE

Peter T. Katzmarzyk, Pennington Biomedical Research Center, Baton Rouge, USA

ISCOLE – Portugal: Preliminary data analysis linking weight status and the environment

José Maia, Faculdade de Desporto University of Porto, Porto, Portugal

The international study of childhood obesity, lifestyle and the environment: Preliminary results from Kenya

Vincent Onywera, Kenyatta University, Nairobi, Kenya

International study of childhood obesity, lifestyle and the environment (ISCOLE): methods and preliminary results from Colombia

Olga L. Sarmiento, Universidad de los Andes, Bogota, Colombia

Discussion and facilitated question period

14.30 – 16.30

IUNS Living Legends and Nevin Scrimshaw Tribute Session

Chairs: Ibrahim Elmadfa, University of Vienna, Austria

Irvin Rosenberg

A personal view of Nutrition in Spain

Salvador Zamora, Emeritus Professor, University of Murcia, Spain

A personal view of the nutrition situation in Europe

Claus Leitzman, Emeritus Professor Institute for the Science of Nutrition, Justus-Liebig-Universität of Giessen

Audiovisual presentation of selected Nutrition living legends from IUNS adhering bodies

Nevin Scrimshaw legacy to the science community
Irvin Rosenberg, Nevin Scrimshaw International Nutrition Foundation, Boston

Room B

08.00 – 10.00
PS3-29
T5 – 5.4

Parallel Symposium

Vitamin A supplementation for children 6-59 months of age: revisiting program strategies and priorities

Chairs: Shawn K. Baker, Vice President and Regional Director for Africa, Helen Keller International, Dakar-Yoff, Senegal
Begoña Olmedilla, Instituto de Ciencia y Tecnología de Alimentos y Nutrición (ICTAN) - Consejo Superior de Investigaciones Científicas (CSIC)

Introduction: Continuing relevance of VAS and contributions to reducing U5M

Shawn K. Baker, Vice President and Regional Director for Africa, Helen Keller International, Dakar-Yoff, Senegal

Vitamin A Supplementation Programs – Revisiting the Strategy: Current priorities of global VAS strategies including building national ownership.

Nita Krakania, UNICEF, New York, NY, USA

Program Implementation examples:

Monitoring for equity: Use of monitoring data and post event assessments to inform programme strategy and ensure equity:
Jessica Blankenship, Helen Keller International - Sub-Regional Office for East and Southern Africa, ILRI Campus, Uthiru, Nairobi, Kenya

Delivering vitamin A supplementation at 6-months of age: An opportunity to improve child survival

Roland Gupta, Nutrition Unit, Child Survival and Development Section, UNICEF Regional Office for West and Central Africa Dakar, Senegal

Mobilizing religious leadership to increase coverage of VAS in Tanzania

Temina Mkumbwa, Nutrition Program Officer, Helen Keller International, Helen Keller International Tanzania, Dar es Salaam United Republic of Tanzania

Integration of VAS into the Health System
*Alison Greig, Senior Technical Advisor - Child Survival,
Micronutrient Initiative, Ottawa, Ontario, Canada*

Evidence base to inform countries when phase-out of VAS may be appropriate
Lynette Neufeld, Micronutrient Initiative, Ottawa, Ontario, Canada

11.30 – 13.30
PS3-37
T5 – 5.4

Parallel Symposium
Findings from 5 birth cohorts from developing countries: The COHORTS collaboration
*Chairs: Linda Richter, South Africa
Mari Nieves Garcia, Instituto Venezolano de Investigaciones Científicas (IVIC), Venezuela*

History of the COHORTS collaboration and methodological considerations
Caroline Fall, University of Southampton, UK

Growth from birth to adulthood in five low- and middle-income countries – COHORTS
Aryeh Stein, Emory University, Atlanta GA, USA

Intergenerational effects on growth
Reynaldo Martorell, Emory University, Atlanta, USA

Long term effects of linear growth vs. weight gain on adult human capital and health
Linda Adair, University of North Carolina at Chapel Hill, USA

Lessons learned from COHORTS and the post 2015 Global Agenda
*Cesar Victora, Federal University of Pelotas, Brazil
Reynaldo Martorell (presenting), Emory University, Atlanta, USA*

14.30 – 16.30
T5

Debate
Vegetarians versus non-vegetarian diets: Are they able to ensure an adequate nutritional status
Chair: Gregorio Varela, University CEU San Pablo, Madrid, Spain

Are vegetarian diets healthy?
Joan Sabate, Loma Linda University, California, USA

16.00-16.30
T5

Special Lecture
Chair: Ángel Gil, University of Granada, Granada, Spain

Regulation of protein synthesis in skeletal muscle by leucine during the neonatal period
Teresa Davis, Baylor College of Medicine, U.S. Department of Agriculture / Agricultural Research Service, Children's Nutrition Research Center at Baylor College of Medicine

Room C

08.00 – 10.00

PS3-30

T6 – 6.1

Parallel Symposium

Fibres and the gut immune system (FIBEBIOTICS Project)

Chairs: Jurriaan Mes, FBR-WUR, The Netherlands

*Fermin Sanchez de Medina, Department of Pharmacology,
University of Granada, Granada, Spain*

Fibres and the gut immune system (EU Fibeiotics Project)

Jurriaan Mes, FBR-WUR, The Netherlands

Determination of beta-glucans in food and samples from in vitro systems

Svein Knutsen, NOFIMA, Norway

Development of integrated in vitro gut model platforms to study fiber fermentation and gut immune effects

Sam Possemiers, Prodigest, Belgium

Microbial Exopolysaccharide production and Functional Food Applications

Catherine Stanton, Teagasc, Ireland

11.30 – 13.30

PS3-38

T6 – 6.2

Parallel Symposium

HEALTHGRAIN Forum Symposium - Cereal foods and health - New results and science based nutrition guidelines

Chairs: Kaisa Poutanen, University of Eastern, Finland

Gabriele Riccardi, Federico II University, Naples, Italy

General introduction – cereal foods and components in our daily diets and their importance for health

Gabriele Riccardi, Federico II University, Naples, Italy

Whole grain and fibre intake and colorectal cancer; new results from the HELGA and EPIC cohorts

*Anja Olsen, Institute of Cancer Epidemiology, Danish Cancer Society
Research Centre, Copenhagen, Denmark*

Health benefits of whole grain wheat: intervention study clarifying underlying mechanisms and the role of polyphenols bound to dietary fibre

*Paola Vitaglione, Department of Agricultural and Food Science,
University of Naples, Naples, Italy*

Whole grain wheat intake – impact on weight loss, body composition and cardiometabolic factors – results from intervention studies

*Penny M. Kris-Etherton, Department of Nutritional Sciences, The
Pennsylvania State University, USA*

Global dietary whole grain recommendations: a harmonised or multifarious message?

Chris Seal, Newcastle University, Newcastle upon Tyne, UK

Concluding remarks followed by plenary discussion

Kaisa Poutanen, VTT and University of Eastern Finland, Finland

16.00-16.30

T6

Special Lecture

Chair: Francisco Pérez- Jiménez, Professor of Internal Medicine, Scientific Director of IMIBIC, University of Cordoba, Spain

Why alpha-linolenic acid (ALA) is essential: New research on plant based sources

Kris Etherton, Department of Nutritional Sciences, The Pennsylvania State University, USA

Machuca and Albéniz Room

(Machuca)

08.00 – 10.00h

PS3-31A

T7 –7.3

Parallel Symposium

Building research capacity in Latin America to address NCDs and obesity

*Chairs: Michael Pratt, Emory University, Atlanta, USA
Eduardo Atalah Samur, University of Chile, Chile*

The challenge of building nutrition research capacity in Ibero-America: The FINUT experience

Angel Gil, University of Granada, Granada, Spain

Leveraging partnerships and networks to create courses, joint projects and academic exchanges for increasing physical activity research capacity in the Americas

Michael Pratt, Emory University, Atlanta, USA

Identifying and closing a gap: Physical activity and nutrition behavior change research

Olga Lucia Sarmiento and Silvia Gonzalez, Los Andes University, Bogotá, Colombia

Creating a center of excellence for NCD research in Latin America

Jaime Miranda, Universidad Peruana Cayetano Heredia, Perú

(Albéniz)

08.00 – 10.00

PS3-31B

T7 – 7.6

Parallel Symposium

IUNS Task Force

Traditional, indigenous and cultural food and nutrition

*Chairs: Harriet V. Kuhnlein, McGill University, Montreal, Canada
Rekia Belahsen, Chouaib Doukkali University, El Jadida, Morocco*

Traditional Mediterranean diet with North African perspective

Rekia Belahsen, Chouaib Doukkali University, El Jadida, Morocco

Resilience to the compounding effects of climate change on the nutrition transitions experienced by the Yellowknives Dene First Nation
Chief Bill Erasmus, Dene Nation and Assembly of First Nations, Yellowknife, Canada and Gail Harrison, University of California at Los Angeles, Los Angeles, USA

From micro to macro policies: why micro-level differences matter in the fight to preserve access to traditional, indigenous foods
Gretel H. Pelto, Cornell University, Ithaca, USA

Biodiversity, food systems and nutritional status of the Indigenous People of Northeast India
T. Longvah, National Institute of Nutrition, Hyderabad, India

Traditional cultivation and use of maguey and cactus pear in the Upper Mezquital Valley of Mexico: Relevance for sustainable livelihoods
María Daniela Núñez Burbano de Lara, University of Hohenheim, Germany

(Machuca)
11.30 – 13.30
PS3-39A
T7 – 7.6

Parallel Symposium

ENLP - Nutrition during times of economic crisis, let's cook something up!

*Chairs: Roosmarijn Verstraeten, Ghent University, Ghent, Belgium
Christophe Matthys, Leuven, Belgium*

A challenge for public health nutrition in a time of austerity
Martin Caraher, Centre for Food Policy at City University, London, UK

Nutrition (How do we ensure nutritious foods?) During the economic crisis
Karl Raats, Speaker, trainer and facilitator in applied creative thinking, Belgium

(Albéniz)
11.30 – 13.30
PS3-39B
T7 – 7.6

Parallel Symposium

IUNS Task Force

Capacity development in innovative techniques in food and nutrition research

*Chairs: Ibrahim Elmadfa, University of Vienna, Vienna, Austria
Angel Gil, University of Granada, Granada, Spain*

Diet quality, determinants and methods of assessment
Ibrahim Elmadfa, University of Vienna, Austria

Gut microbiota, tools for analyzing immune functions
Angel Gil, University of Granada, Granada, Spain

Metrology based measurements in food and nutrition sciences
V. Iyengar, Washington, USA

Isotope technique tools for better accuracy of analytical procedures
Anura V Kurpad, St John's Medical College, Bangalore, India

Building research capacity in nutrition in the Middle East and North
Africa: The challenge for MENANA
Sidiga Washi, United Arab Emirates University, UAE

16.00-16.30
T7

Special Lecture

Chair: Furio Brighenti

Bioactive foods and ingredients for health

*Connie Weaver, Department of Nutrition Science (NUTR), Purdue
University, USA*

Room D

08.00 – 10.00
PS3-32
T8 – 8.3

Parallel Symposium

**Low-calorie sweeteners: Are they safe and can they help with weight
management?**

*Chairs: Tommy Vischer, Windesheim University of Applied Sciences,
The Netherlands
Arturo Anadon, Complutense University of Madrid, Spain*

Why did we evolve a taste for sweetness and can we live without it?
*Marion Hetherington, Professor of Biopsychology Institute of
Psychological Sciences University of Leeds, Leeds, UK*

Dietary habits and the use of LCS: An effective tool in the prevention
of obesity and diabetes
*Adam Drewnowski, University of Washington, Seattle, Washington,
USA*

Low calorie sweeteners: Should the public be concerned still ?
Andrew Renwick, University of Southampton, UK

11.30 – 13.30
PS3-40
T8 – 8.3

Parallel Symposium

FESNAD forum: Nutrition claims*

*Chairs: Rosaura Farré Rovira, Retired, University of Valencia, Spain
Jordi Salas-Salvadó, Rovira i Virgili University, CIBERObn,
Spain*

Nutrition and Health Claims: Different Aspects
Rosaura Farré Rovira, Retired, University of Valencia, Spain

How important are health claims in infant nutrition?
*José Manuel Moreno Villares, Hospital Universitario 12 de Octubre,
Madrid, Spain*

Claims related to functional foods in the cardiovascular area
Jordi Salas-Salvadó, Rovira i Virgili University, CIBERObn, Spain

Communication on food and nutrition in hospital

Olga Ruiz Guerrero, Hospital Virgen de la Victoria in Malaga, Málaga, Spain

Health claims. More severe than the European Food Safety Authority (EFSA): To be or not to be?

Eduard Baladía, Spanish Foundation of Dietitians & Nutritionists, Pamplona, Spain

Health claims in meat based functional foods

Francisco Jiménez- Colmenero, CSIC, Madrid, Spain

Introduction of functional foods in the diet of school canteen. Towards a nutritional fortification of our students

Manuel Espinoza Montenegro, Latin American School Feeding Network

**This session will be in Spanish, no translation will be provided.*

16.00 - 16.30

T8

Special Lecture

Chair: Lluís Serra-Majem, Universidad de Las Palmas de Gran Canaria, Spain

Agrinutrition. Where are we going?

Alan Dangour, The Leverhulme Centre for Integrative Research in Agriculture and Health

Thursday, September 19th

Andalucía Rooms

08.00 – 10.00

PS4-41

T1 – 1.1

Parallel Symposium

Public health genomics in individualized nutrition

*Chairs: Fermin Milagro, Department of Nutrition, Food Science and Physiology, University of Navarra, Pamplona, Spain
Helmut Brand Department of International Health, Maastricht University, The Netherlands*

Public health genomics in nutritional sciences

Angela Brand, Maastricht University, Maastricht, The Netherlands

Epigenetic mechanisms of bioactive food components in cancer prevention

Barbara Stefanska, McGill University, Montreal, Quebec, Canada

Integration of genetic and epigenetic information in cancer

Nuria Malats, Spanish National Cancer Research Centre (CNIO), Madrid, Spain

Let's implement public health genomics and personalized nutrition

Ben van Ommen, TNO, Zeist, The Netherlands

Genetic, epigenetic and nutritional interactions in neurological disorders

Borut Peterlin, University Medical Center Ljubljana

Genomics, microbiomics and epigenomics in metabolic syndrome, a case study in Public Health Genomics

Alexander G. Haslberger, University of Vienna, Austria

11.30 – 13.30

PS4-49

T1 – 1.4

Parallel Symposium

Biomarkers of response to dietary interventions

*Chairs: Philip C. Calder, University of Southampton, Southampton, UK
Ricardo Rueda, Abbot Laboratories, Spain*

Advanced imaging techniques to study brain development in nutritional interventions

Stéphane V. Sizonenko, Children's Hospital, Department of Child and Adolescent Medicine, Geneva, Switzerland

Applying structural magnetic resonance brain imaging in nutrition studies

Kristine B. Walhovd, University of Oslo, Oslo, Norway

A consideration of biomarkers to be used for evaluation of inflammation in human nutritional studies

Philip C. Calder, University of Southampton, Southampton, UK

New metabolomic strategies in clinical nutrition research: from diet to revealing disease risk biomarkers
Cristina Andrés-Lacueva, University of Barcelona, Barcelona, Spain

14.30-16.00

T1

Oral Communications

Chair: Jose Luis Santos, Pontificia Universidad Católica de Chile, Santiago, Chile
Concepcion Aguilera, University of Granada, Granada, Spain

O130 - LONG-TERM HEALTH CONSEQUENCES OF EARLY-LIFE STARVATION: EVIDENCE FROM FAMINE-BORN COHORTS IN UKRAINE
A. Vaiserman, Laboratory of Epigenetics, Institute of Gerontology, Kiev, Ukraine

O132 - CHANGES IN IRON METABOLISM, HAEMATOLOGICAL AND INFLAMMATORY PARAMETERS OF DIABETIC RATS TREATED WITH VANADIUM AS AN ANTIDIABETIC AGENT
C. Lopez-Chaves, Department of Physiology, University of Granada, Granada, Spain

O133 - PUFA AND OXIDATIVE STRESS. FROM CYTOTOXIC EFFECT TOWARD ANTIOXIDANT DEFENCES
M. Di Nunzio, Interdepartmental Centre for Industrial Agri-Food Research, University of Bologna, Cesena, Italy

O134 - DIETARY COFFEE POLYPHENOLS DON'T ATTENUATE FEATURES OF THE METABOLIC SYNDROME AND ENDOTHELIAL DYSFUNCTION IN MICE FED A HIGH-FAT DIET
N. Ward, School of Medicine & Pharmacology, University Of Western Australia, Perth, WA, Australia

O135 - THE INFLUENCE OF BLOOD SELENIUM STATUS AND SELENOPROTEIN GENE VARIATION ON COLORECTAL CANCER RISK
D. Hughes, Department of Physiology & Medical Physics & Centre for Systems Medicine, Royal College of Surgeons in Ireland, Dublin, Ireland

O136 - RELATIONSHIP BETWEEN METHIONINE METABOLISM PATHWAY GENES WITH PLASMA HOMOCYSTEINE AND RISK OF TYPE 2 DIABETES IN CHINESE
T. Huang, Zhejiang University, Hangzhou, China

O137 - IMPACT OF BREAST-FEEDING COMPARED TO FORMULA-FEEDING ON BLOOD-CELL TRANSCRIPT-BASED POTENTIAL BIOMARKERS OF HEALTH IN CHILDREN
J. Sánchez, Laboratory of Molecular Biology, Nutrition and Biotechnology (Nutrigenomics), University of the Balearic Islands (UIB) and CIBER Fisiopatología de la Obesidad y Nutrición (CIBERObn), Palma de Mallorca, Spain

16.00-16.30

Special Lecture

T1

Chair: Concepcion M. Aguilera, University of Granada, Granada, Spain

Brite versus brown and white adipose tissues: functional and molecular differences

Barbara Cannon, Stockholm University, Sweden

Machado and Picasso Rooms

(Machado)

08.00 – 10.00

PS4-42A

T2 – 2.5

Complementary feeding and infant health (FAO Project)

*Chairs: Anna Larrey, University of Ghana, Legon, Ghana, West Africa
Michael Krawinkel, Justus-Liebig-University Giessen, Germany*

Benefits of longer breastfeeding

Michael B. Krawinkel, Justus-Liebig-University Giessen, Germany

Introduction of solids and semisolids – critical nutrient and energy density

Anna Larrey, University of Ghana, Legon, Ghana, West Africa

Nutrition education and infant feeding

Ellen A. Muehlhoff, Nutrition Education and Consumer Awareness Group, Nutrition Division (ESN), FAO, Rome, Italy

Health risks associated with infant feeding practices

Irmgard Jordan, Justus-Liebig-University, Giessen, Germany

Closing

Michael B. Krawinkel, Justus Liebig University Giessen, Germany

(Picasso)

08.00 – 10.00

PS4-42B

T2 – 2.5

Parallel Symposium

Generating evidence of impact for integrated programs aimed to improve child nutrition during the first 1000 days (IFPRI)

Chairs: Marie Ruel, International Food Policy Research Institute, USA

Reynaldo Martorell, Emory University, Atlanta, USA

The evaluation of Tubaramure in Burundi: An integrated food aid program

Jef Leroy, International Food Policy Research Institute, USA

Using program impact pathways (PIPs) to trace early impact in the Alive & Thrive program in Bangladesh

Rahul Rawat, International Food Policy Research Institute, USA

The use of process evaluation to improve program implementation and potential impact on children's nutrition; evidence from HKI's homestead food production program in Burkina Faso

Deanna Olney, International Food Policy Research Institute, USA

Data for delivery

S K. Baker, Helen Keller International, New York, USA

Adding value to evaluation: answering “why” and “how” along with “did or didn’t”

James Garrett, International Food Policy Research Institute, USA

11.30 – 13.30

PS4-50

T2 – 2.2

Parallel Symposium

Early diet is critical for later development - New research into changing early eating habits (HABEAT and VIVA)

Chairs: Sylvie Issanchou, INRA – CSGA, Dijon, France

Elvira Larque, University of Murcia, Spain

Critical periods for eating habit development; results from cohort studies in France, Portugal, Greece and UK

Pauline Emmett, University of Bristol, UK

Learning to like vegetables: Applying learning theory to the acquisition of preferences for novel vegetables from 6 – 36m

Marion Hetherington, University of Leeds, UK

Results of the taste study: an intervention to increase vegetable liking and consumption by exposure to a variety of vegetables at weaning

George Moschonis, University of Harokopio, Greece

Strategies to increase vegetable consumption in 3- to 6-years-olds: theory and practice

Gertrude Zeinstra, DLO-Food & Biobased Research

Caloric compensation and eating in the absence of hunger in early childhood: impact of parental feeding practices

Sophie Nicklaus, INRA

14.30 - 16.00

T2

Oral Communications

Chair: He Young Paik, Department of Food and Nutrition, Seoul National University, Seoul, Korea

Amelia Marti, Universidad de Navarra, Spain

O138 - ANTENATAL MULTIPLE MICRONUTRIENTS COMPARED TO IRON-FOLIC ACID LENGTHENS GESTATION, INCREASES BIRTH SIZE AND REDUCES RISK OF LBW IN RURAL BANGLADESH

A A. Shamim, Jivita Project, Gaibandha, Bangladesh

O139 - GLOBAL PROGRESS ON REDUCING ANEMIA IN PREGNANT WOMEN AND YOUNG CHILDREN

R. Galloway, Maternal And Child Health Integrated Program (MCHIP)/Program For Appropriate Technology In Health (PATH), Washington, USA

O140 - INCREASED N-3 PUFA STATUS IS ASSOCIATED WITH IMPROVED MATH AND READING PERFORMANCE IN THE OPUS SCHOOL MEAL STUDY

L. B. Soerensen, Department of Nutrition, Exercise and Sports, University of Copenhagen, Copenhagen, Denmark

O141 - MOTHER'S POSITIVE ATTITUDE AND FAMILIARITY TOWARDS FORMULA MILK MAY CONTRIBUTE TO LOW DIETARY DIVERSITY AMONGST INDONESIAN URBAN YOUNG CHILDREN

A. Roshita, SEAMEO RECFON University of Indonesia, Indonesia

O142 - LONG-CHAIN POLYUNSATURATED FATTY ACIDS IN THE DIET AND MILK OF CROATIAN MOTHERS AT THREE MONTHS POSTPARTUM

G. Kresic, Department of Food And Nutrition; Faculty of Tourism and Hospitality Management, University of Rijeka, Opatija, Croatia

O143 - ASSOCIATION BETWEEN DIETARY CALCIUM INTAKE AND BLOOD PRESSURE AMONG PORTUGUESE CHILDREN

S. Abreu, Research Centre in Physical Activity, Health and Leisure, Faculty of Sport, University of Porto, Porto, Portugal

O144 - FREQUENCY AND DETERMINANTS OF DHA SUPPLEMENT USAGE IN PREGNANCY AND LACTATION IN GERMANY

L. Libuda, Research Institute of Child Nutrition Dortmund, University of Bonn, Germany

O145 - MOST EFFECTIVE PERIOD TO CONTROL ANAEMIA IN PREGNANCY: ADOLESCENCE OR PREPREGNANCY?

R. Jayatissa, Ministry of Health, Colombo, Sri Lanka

16.00 - 16.30

T2

Special Lecture

Chair: Antonia Trichopoulou, University of Athens Medical School, Hellenic Health Foundation, Athens, Greece

The importance of dietary protein to maintain musculoskeletal mass and quality during aging

Daniel Moore, Department of Human Health and Nutritional Sciences, University of Guelph, Ontario, Canada

Falla Auditorium

08.00 – 10.00

PS4-43

T3 – 3.4

Parallel Symposium

Nutrition profiling (WHO)

*Chairs: Chizuru Nishida, WHO/HQ
João Breda, WHO/EURO*

WHO's work on developing guiding principles and methodological framework for developing or adapting nutrient profile models

Chizuru Nishida, Department of Nutrition for Health and Development, WHO, Geneva

Nutrient profiling to develop a model for marketing food and non-alcoholic beverages to children: Experiences and lessons learned from Norway

Arnhild Haga Rimestad, Norwegian Directorate of Health and Social Affairs, Norway

Nutrient profiling to develop a model for front of pack labelling: Current issues and considerations

Mary L'Abbe, Earle W. McHenry Professor and Chair, Department of Nutritional Sciences, Faculty of Medicine, University of Toronto, Canada

Nutrient profiling to develop a model for regulating health and nutrition claim: Experiences and lessons learned from South Africa

Edelweiss Wentzel-Viljoen, Centre of Excellence for Nutrition, Faculty of Health Sciences, North-West University, Potchefstroom, South Africa

Is it possible to develop a global nutrient profile model?

Mike Rayner, British Heart Foundation Health Promotion Research Group, Department of Public Health, University of Oxford, UK

11.30 – 13.30

PS4-51

T3 – 3.1

Parallel Symposium

Nutrition, physical activity and the prevalence of NCDs in the Middle East and North-Africa

Chairs: Ibrahim Elmadfa, University of Vienna, Austria

Nahla Houalla, American University of Beirut, Lebanon

Nutrition as a risk factor of cardiovascular diseases in countries of the Middle East

Nahla Houalla, American University of Beirut, Lebanon

Nutrition and NCDs in North-Africa

Najat Mokhtar, International Atomic Energy Agency, Vienna, Austria

Physical activity and lifestyle habits of arab adolescents: Preliminary findings from the arab teens lifestyle study

Hazzaa Al Hazzaa, Riyadh, Pediatric Exercise Physiology Research Laboratory, Riyadh, Saudi Arabia

Building research capacity in nutrition to prevent NCDs in the Middle-East and North-Africa

Ibrahim Elmadfa, University of Vienna, Austria

The Palestinian Micronutrient Survey (PMS)- first representative national nutritional study

Ibrahim Elmadfa, A. Abu-Rub, A. Skaik, N Rizkallah, K. Ben-Abdallah (University of Vienna, MOH Ramallah & Gaza, UNICEF Jerusalem)

14.30 - 16.00

T3

Oral Communications

Chair: Rekia Belahsen, Chouaib Douikkali University, El Jadida, Morocco

David Martínez, Department of Physical Education, Sports and Human Movement, Faculty of Teacher Training and Education,

*Universidad Autónoma de Madrid,
Madrid, Spain*

**O146 - DIETARY PATTERNS ASSOCIATED WITH METABOLIC SYNDROME:
THE KHORRAMABAD STUDY**

*E. Falahi, Department of Nutrition, Faculty of Health and Nutrition,
Lorestan University of Medical Sciences, Khorramabad, Iran*

**O147 - BIOMARKERS OF CARDIOMETABOLIC RISK ARE ASSOCIATED
WITH POOR LIFESTYLE PRACTICES IN URBAN SRI LANKAN WOMEN**

*I. Waidyatilaka, Department of Biochemistry And Molecular Biology,
Faculty Of Medicine, University of Colombo, Sri Lanka*

O148 - THE ECONOMIC IMPACT OF ANAEMIA IN PERU

*I. Lasa Hernandez, Country Director, Action Against Hunger Spain,
Lima, Peru*

**O149 - MICRONUTRIENT DEFICIENCY: A PUBLIC HEALTH PROBLEM IN
HO CHI MINH CITY, VIETNAM**

T T. Minh Hanh, Nutrition Center of Ho Chi Minh City, Vietnam

**O150 - THE PARADOXAL LINK BETWEEN FOOD INSECURITY AND
OBESITY IN PORTUGUESE ADULTS**

*M J. Gregório, Faculty of Nutrition And Food Sciences of University of
Porto, Porto, Portugal*

**O151 - STUDY TIME IS ASSOCIATED WITH DIETARY PATTERNS IN
EUROPEAN ADOLESCENTS PARTICIPATING IN THE HELENA STUDY**

*A M. Santaliestra-Pasías, GENUD (Growth, Exercise, Nutrition and
Development) Research Group, University of Zaragoza, Zaragoza, Spain*

**O152 - THE ASSOCIATION OF METABOLIC SYNDROME AND FOOD
PATTERNS IN NON-MENOPAUSE WOMEN**

*M. Hajifaraji, Department of Nutrition & Food Security, National
Nutrition & Food Technology Research Institute, Faculty of Nutrition &
Food Technology, Shahid Beheshti Medical University, Tehran, I. R. Iran*

**O153 - ASSOCIATION BETWEEN A HEALTHY DIET ACCORDING TO WHO
GUIDELINES AND ALL-CAUSE MORTALITY IN EUROPEAN AND
AMERICAN ELDERLY, THE CHANCES PROJECT**

*N. Jankovic, Division of Human Nutrition, Wageningen University,
Wageningen, The Netherlands*

16.00 - 16.30

T3

Special Lecture

Chair: Theodora Handjeva-Darlenska

Obesity of the rich, obesity of the poor: Two epidemics?

*Benjamin Caballero, International Health, Johns Hopkins Bloomberg's
School of Public Health Baltimore, USA*

Lorca Auditorium

08.00 – 10.00

PS4-44

T4 – 4.5

Parallel Symposium

Nutrition in inflammatory bowel diseases. From basic to clinical application

*Chairs: Fermin Sanchez de Medina, Department of Pharmacology, University of Granada, Granada, Spain
Herbert Lochs Medizinische Universität, Innsbruck, Austria*

To feed or not to feed? Are nutritional supplements worthwhile in active Crohn's disease?

Herber Lochs Medizinische Universität, Innsbruck, Austria

Dietary modulation of peroxisome proliferator-activated receptor gamma

Sibanni Ghosh, University of Calgary, Italy

Artificial Nutrition in IBD: nutritional therapy and beyond?

Eduard Cabre, Hospital Tria I Pujol, Badalona, Spain

10.30 – 11.30

Plenary Lecture

Chair: Ibrahim Elmadfa, President of the IUNS, University of Vienna, Vienna, Austria

Presentation of the IUNS Award

Anna Lartey, University of Ghana, Legon, Ghana

IUNS Award Lecture

Awardee

11.30 – 13.30

PS4-52

T4 – 4.5

Parallel Symposium

International Life Sciences Institute (ILSI) Session on Food Allergy

*Chairs: Clare E.N. Mills, Institute of Inflammation and Repair. The University of Manchester, UK
Diána Bánáti, International Life Sciences Institute Europe, Brussels, Belgium*

Introduction to ILSI's Food Allergy programs at the different branches
Diána Bánáti, Executive and Scientific Director, International Life Sciences Institute Europe, Brussels, Belgium

Allergens prevalence

Clare E.N. Mills, Institute of Inflammation and Repair. The University of Manchester, UK

Probabilistic risk assessment in setting allergen thresholds

Steve Taylor, Food Allergy Research & Resource Program -University of Nebraska, USA

The Consumer perspective—Living with uncertainty

Audrey Dunn Galvin, School of Applied Psychology. University College Cork, Honorary Research Fellow, Department of Paediatrics and Child Health, Cork University Hospital, Ireland

Protein allergenicity

Gregory S. Ladics, DuPont Company, Pioneer HI-Bred -PhD, DABT, ATS, Research Fellow, DuPont (Co-Chair, HESI Protein Allergenicity Technical Committee)

14.30 - 16.00

T4

Oral Communications

Chairs: Duo Li, Department of Food Science & Nutrition, Zhejiang University, Hangzhou, China

Luis Fontana, Univeristy of Granada, Granada, Spain

O154 - CHARACTERIZATION OF BIOLOGICAL BARRIERS THAT IMPACT NUTRITIONAL STATUS AMONG HIV-POSTIVE AND HIV-NEGATIVE WOMEN AND THEIR INFANTS IN SEMI-RURAL TANZANIA

AL. Wilkinson, Cornell University, Ithaca, New York, USA

O155 - MALNUTRITION AMONG EGYPTIAN CHILDREN

S. El-Masry, Biological Anthropology Dept., National Research Centre, Cayro, Egypt

O156 - PROCOLLAGEN III N-TERMINAL PROPEPTIDE BEYOND A FIBROSIS BIOMARKER IN NON-ALCOHOLIC FATTY LIVER DISEASE ASSOCIATED WITH OBESITY IN CHILDREN

O. Rangel, Department of Biochemistry and Molecular Biology II, Institute of Nutrition and Food Technology, Biomedical Research Centre. University of Granada, Granada, Spain

O157 - POST-PRANDIAL APPETITIVE AND GLYCEMIA-REGULATING EFFECTS OF ALMONDS CONSUMED WITH MEALS OR AS SNACKS

S Y. Tan, Department of Nutrition Science, Purdue University, West Lafayette, Indiana, USA

O158 - CARDIOVASCULAR PREVENTIVE EFFECT OF FRUITS AND VEGETABLES: IS IT MODIFIED BY OLIVE OIL CONSUMPTION?

J M. Nunez-Cordoba, Department of Preventive Medicine and Public Health, Medical School - Clinica, Universidad De Navarra, Spain

O159 - THE ROLE OF NUT CONSUMPTION IN MAINTAINING CARDIOVASCULAR HEALTH AND COGNITIVE FUNCTION

J. Barbour, Nutritional Physiology Research Centre, University of South Australia, Adelaide, South Australia, Australia

O160 - EFFECTS OF PARENTERAL NUTRITION FORMULAS ON PLASMA LIPID PROFILE IN CHILDREN WITH BONE MARROW TRANSPLANTATION

M. Gil-Campos, Reina Sofia University Hospital, Córdoba, Spain

O161 - ABUNDANCE AND DIVERSITY OF MICROBIOTA IN METABOLIC SYNDROME

M. Remely, Department of Nutritional Sciences, University Vienna, Vienna, Austria

16.00 - 16.30
T4

Special Lecture

Chair: Eduard Cabre, Hospital Tria I Pujol, Badalona, Spain

Diet and noncommunicable diseases: Lessons from the EPIC-Study

Heiner Boeing, German Institute of Human Nutrition, Berlin

Room B

08.00 – 10.00
PS4-45
T5 –5.4

PS4-45

Iron and Malaria (FeMal) Project Results

Chairs: Andrew Prentice, London School of Hygiene and Tropical Medicine

Miguel Arredondo, INTA – University of Chile, Chile

Overview of the Iron and Malaria Project

Daniel Raiten, U.S. National Institutes of Health, USA

Harmonization of soluble transferrin receptor (sTfR) measurements

Vesper Hubert, U.S. Centers for Disease Control and Prevention

Results from the Biomarkers Reflecting Inflammation and Nutrition Determinants of Anemia (BRINDA) Pooled Dataset

Parmi Suchdev, U.S. Centers for Disease Control and Prevention &

Sorrel Namaste, U.S. National Institutes of Health

11.30 – 13.30
PS4-53
T5 – 5.4

Parallel Symposium

Strengthening micronutrient nutrition surveillance: WHO and CDC tools and methods

Chairs: Juan Pablo Pena-Rosas, World Health Organization, Geneva, Switzerland

Rafael Flores-Ayala, U.S. Centers for Disease Control and Prevention (CDC), Atlanta, USA

The upgrade and expansion of the WHO vitamin and mineral nutrition information system (VMNIS)

Luz Maria De-Regil, Department of Nutrition for Health and

Development, World Health Organization (WHO), Geneva, Switzerland

Juan Pablo Pena-Rosas, World Health Organization, Geneva, Switzerland

The nutrition survey toolkit and the 2nd edition of the micronutrient survey manual to improve the design and quality of micronutrient surveys

Kevin Sullivan, U.S. Centers for Disease Control and Prevention (CDC), Atlanta, USA

Rafael Flores-Ayala, U.S. Centers for Disease Control and Prevention (CDC), Atlanta, USA

The new WHO/CDC indicator eCatalogue as a source of indicators to monitor and evaluate micronutrient interventions

Juan Pablo Pena-Rosas, World Health Organization, Geneva, Switzerland

Maria Elena del Socorro Jewfferds, U.S. Centers for Disease Control and Prevention (CDC), Atlanta, USA

Continuous household surveys to produce high quality, low cost and timely micronutrient surveillance data.

Rafael Flores-Ayala, U.S. Centers for Disease Control and Prevention (CDC), Atlanta, USA

Maria Elena del Socorro Jewfferds, U.S. Centers for Disease Control and Prevention (CDC), Atlanta, USA

14.30 - 16.00

T5

Oral Communications

*Chairs: Mari Nieves García Casal, Instituto Venezolano de Investigaciones Científicas (IVIC), Venezuela
Santiago Navas-Carretero, University of Navarra, Pamplona, Spain*

O162 - INTELLIGENCE AND ITS ASSOCIATION WITH NUTRITIONAL STATUS IN PRIMARY SCHOOL PUPILS IN LAFIA, NIGERIA.

S. Okolo, Department of Paediatrics, Jos University Teaching Hospital, Jos, Nigeria

O163 - INCREASED RESTING ENERGY EXPENDITURE IN YOUNG ADULTS WITH HIGH TRIGLICERYDES

M A. Anaya-Loyola, Universidad Autónoma De Querétaro, Mexico

O164 - SERUM RETINOL AND ANTHROPOMETRIC STATUS OF 2-5-YEAR-OLD SOUTH AFRICAN CHILDREN AND THEIR CAREGIVERS WITH DIVERSE DIETARY PATTERNS

M. Faber, Nutritional Intervention Research Unit, Medical Research Council, South Africa

O165 - DESIGN, ASSESSMENT OF REPRODUCIBILITY AND VALIDITY OF A FOOD FREQUENCY QUESTIONNAIRE IN A SAMPLE OF ADULTS LIVING IN QUITO-ECUADOR(QFA-QUITO)

M. Silva, Department of Public Health Nutrition, Ministry of Health, Quito-Ecuador

O166 - RELATIONSHIP BETWEEN MAGNESIUM INTAKE, C- REACTIVE PROTEIN LEVELS AND THE METABOLIC SYNDROME COMPONENTS IN A HEALTHY ADULT POPULATION FROM MADRID

T K. Villalobos, Department of Nutrition, Faculty of Pharmacy Universidad Complutense de Madrid, Madrid, Madrid, Spain

O167 - DETERMINANTS OF VITAMIN D STATUS IN PATIENTS WITH STABLE ANGINA

J. Dierkes, University of Bergen, Dept. Of Clinical Medicine, Norway

O168 - RISK FACTORS OF IRON DEFICIENCY AMONG CHILDREN 6-59 MONTHS IN THE NORTHERN REGION OF GHANA.

B. Abu, Department of Nutrition and Dietetics, University of the Free State, Bloemfontein, Free State, South Africa

O169 - TOWARDS A COMPREHENSIVE WEB-BASED DIETARY RESEARCH INFRASTRUCTURE TO SUPPORT INTERNATIONAL MONITORING AND EPIDEMIOLOGICAL NUTRITIONAL STUDIES

N. Slimani, International Agency For Research On Cancer, Dietary Exposure Assessment Group, Lyon, France

16.00 - 16.30

T5

Special Lecture

Chair: Malzorgata Schlegel-Zawadzka, Institute of Public Health, Jagiellonian University, KRAKOW, Poland

Iron food fortification and anemia prevention

Mari Nieves García Casal, Instituto Venezolano de Investigaciones Científicas (IVIC), Venezuela

Room C

08.00 – 10.00

PS4-46

T6 –6.1

Parallel Symposium

Functional roles of human milk and other selected oligosaccharides

Chairs: Alan W. Walker, Harvard Medical School, Massachusetts General Hospital, USA

Jamuna Prakash, Department of Food Science and Nutrition, University of Mysore, Manasagangotri, Mysore

Isolation, characterization and functional roles of human milk oligosaccharides

Clemens Kunz, Institute of Nutritional Sciences, University of Giesse, Germany

Basic aspects of human milk oligosaccharides; new animal and ex-vivo observations

Pedro A. Prieto, Abbott Nutrition, Strategic Research Department, Columbus, USA

The role of human milk oligosaccharides in intestinal colonization

Alan W. Walker, Harvard Medical School, Massachusetts General Hospital, USA

Non-absorbable oligosaccharides: just prebiotics?

Olga Martínez, CIBERehd. University of Granada, Granada, Spain

11.30 – 13.30

PS4-54

T6 – 6.1

Parallel Symposium

Functional roles of prebiotic inulin-type fructans

Chairs: Nathalie Delzenne, Université Catholique de Louvain, Belgium

Olga Martínez, CIBERhd. University Of Granada, Granada, Spain

Prebiotic modulation of the human gut microbiota: Is this a health benefit?

Robert A. Rastall, Reading University, UK

Gut microbiota impact on metabolic disorders associated with obesity
Nathalie Delzenne, Université Catholique de Louvain, Belgium

Prebiotics in infant nutrition

Ricardo Closa Monasterolo, Hospital Universitari Joan XXIII de Tarragona, Spain

Role of prebiotics in regulating energy intake and body weight
Raylene Reimer, Univ Calgary, Canada

14.30 - 16.00

T6

Oral Communications

*Chairs: Malgorzata Schlegel-Zawadzka, Department of Human Nutrition, Institute of Public Health, Faculty of Health Sciences, Jagiellonian University Medical College, Krakow, Poland
Jorge Mujico, Jorge Mujico, Spanish National Research Council (CSIC), Madrid, Spain*

O170 - COLD PRESSED OILS AS A SOURCE OF BIOACTIVE COMPOUNDS
A. Obiedzinska, Institute of Agricultural and Food Economics - National Research Institute, Warsaw, Poland

O171 - INHIBITORY EFFECTS OF LYCOPENE ON THE PROLIFERATION AND PROGRESSION OF HUMAN COLON CANCER CELLS IN BOTH IN VITRO AND IN VIVO MODELS

F. Tang, Department of Nutrition, China Medical University, China

O172 - ANTI-INFLAMMATORY AND ANTIOXIDANT PROPERTIES OF FLAVONOID-RICH EXTRACTS FROM HELICHRYSUM AND GRAPEFRUIT IN INSULIN RESISTANT RATS

A L. De La Garza, Department of Nutrition, Food Science and Physiology, University of Navarra, Spain

O173 - ORAL INTAKE OF A SPECIFIC OREGANO EXTRACT BY HEALTHY HUMANS INCREASES CALMNESS, VIGILANCE AND MENTAL PROCESSING SPEED

M H. Mohajeri, DSM Nutritional Products, Human Nutrition, Basel, Switzerland

O174 - IMPROVEMENT EFFECTS OF CHLOROGENIC ACID ON LATE DIABETES THROUGH ADIPONECTIN RECEPTOR SIGNALING PATHWAYS IN DB/DB MICE

C. Chang, 3rd Hospital of Peking University, China

O175 - YOUNG ZEA MAYS POWDER IMPROVES SOME NUTRIENT COMPOSITION AND REDUCES GLYCEMIC INDEX OF BUTTER BISCUIT

W R. W I, Universiti Sains Malaysia, Malaysia

O176 - GLYCEMIC AND INSULINEMIC RESPONSES DIFFER DEPENDING ON THE CONTENT OF SLOWLY DIGESTIBLE STARCH IN CEREAL PRODUCTS INCLUDED IN BREAKFAST

A. Meynier, Mondelez International R&D, Nutrition Department, Saclay, France

O177 - COMPARISON OF THE EFFECT OF DARK AND WHITE CHOCOLATE ON APO B, APOA-1, LIPID PROFILE, HS-CRP, GLYCAEMIC CONTROL AND BLOOD PRESSURE IN HYPERTENSIVE TYPE 2 DIABETICS

S. Eghtesadi, Department of Nutrition and Biochemistry, Tehran University of Medical Sciences, Tehran, Iran

16.00 - 16.30

T6

Special Lecture

Chair: Frank Hu, Harvard Medical School and Channing Lab, BWH, USA

Cardiovascular Effects of Dietary Flavonoids - Is there a potential benefit in diabetes?

Ian MacDonald, University of Nottingham, UK

Machuca and Albéniz Rooms

08.00 – 10.00

PS4-47

T7 - 7.1

Parallel Symposium

Mediterranean diet and disease

*Chairs: Denis Lairon, Vice President of FENS
Joan Sabaté, Loma Linda University, California, USA*

*Mediterranean diet and metabolic syndrome
Demosthenes Panagiotakos, Dept of Nutrition and Dietetics, Harokopio University, Athens, Greece*

*Mediterranean diet, health benefits and the role of traditional foods
Antonia Trichopoulou, University of Athens Medical School, Hellenic Health Foundation, Athens, Greece*

*Mediterranean diet and cancer: Where we are and new insights
Elio Riboli, School of Public Health at Imperial College London, UK*

*Depression and mediterranean diet
Lluís Serra-Majem, Universidad de Las Palmas de Gran Canaria, Las Palmas de Gran Canaria, Spain*

11.30 – 13.30
PS4-55
T7 - 7.1

Parallel Symposium
PREDIMED study

*Chairs: Frank Hu, Harvard Medical School and Channing Lab, BWH, USA
Carlos Alberto González, Catalan Institute of Oncology, Hospitalet de Llobregat, Barcelona, Spain*

*The PREDIMED study: Rational, design, methods and interventions.
Emilio Ros Rahola, Hospital Clinic, Barcelona, Spain*

*Effect of Mediterranean diet on classical and emergent risk factors of cardiovascular disease in the PREDIMED Study
Montserrat Fitó, Cardiovascular Risk and Nutrition Research Group, IMIM-Institut de Recerca del Hospital del Mar, Barcelona, Spain*

*Mediterranean diet, metabolic syndrome and diabetes prevention in the PREDIMED Study
Jordi Salas-Salvadó, Rovira i Virgili University, CIBERObn, Spain*

*Mediterranean diet in the primary prevention of cardiovascular disease
Ramon Estruch, Department of Internal Medicine, Hospital Clinic, Institut d'Investigacions Biomèdiques August Pi Sunyer (IDIBAPS), Barcelona, Spain*

*Interactions between Mediterranean diet and genetic variants, and risk of disease in the PREDIMED Study
Dolores Corell, Department of Preventive Medicine and Public Health, University of Valencia, Valencia, Spain*

The PREDIMED II trial: Objectives and implementation.

Miguel Angel Martinez-Gonzalez, Department of Preventive Medicine and Public Health, Medical School-Clinica, University of Navarra, Pamplona, Spain

14.30 - 16.00

T7

Oral Communications

*Chairs: Maria del Puy Portillo, Department of Nutrition and Food Sciences, Universidad del País Vasco, Vitoria, Spain
Elvira Larque, University of Murcia, Spain*

O178 - ADOLESCENT DIETARY PATTERNS: TRADITION OR CONVENIENCE

M. De Lanerolle-Dias, Department of Biochemistry And Molecular Biology, Faculty Of Medicine, University of Colombo, Colombo, SriLanka

O179 - IMPROVING WOMEN AND CHILDREN NUTRITION THROUGH TARGETED CAPACITY BUILDING INTERVENTIONS: EXPERIENCE FROM ETHIOPIA

A. Guyon, John Snow Inc.(JSI), Ethiopia

O180 - CONDITIONS OF NUTRITION OF CHILDREN FROM 7 TO 10 YEARS IN PUBLIC SCHOOLS AT REGION MARUÍPE, VITORIA/ES - BRAZIL.

L. Salaroli, Department of Education Integrated Health, Federal University of Espírito Santo, Brazil

O181 - TRENDS IN FOOD CONSUMPTION OVER 25 YEARS IN A DUTCH ADULT POPULATION.

M. Geurts, Centre for Nutrition, Prevention and Health services, National Institute of Public Health and the Environment, The Netherlands

O182 - SOCIO-DEMOGRAPHIC PATTERNS OF HYPERTENSION, KNOWLEDGE, BEHAVIOURS AND PRACTICES OF ADULT TRIBAL (ADIVASIS) POPULATION IN INDIA: A FIRST NATIONAL MONITORING SURVEY

A. Laxmaiah, Division of Community Studies, National Institute of Nutrition, Hyderabad, India

O183 - THE EFFECT OF AFRICAN LEAFY VEGETABLES ON THE MICRONUTRIENT STATUS OF SCHOOL CHILDREN IN SOUTH AFRICA: A RANDOMIZED CONTROLLED TRIAL

J. Osei, Centre of Excellence For Nutrition (CEN), North-West University, South Africa

O184 - DEVELOPING HEALTHY INDIGENOUS MENUS THROUGH WOMEN'S GROUP PARTICIPATION

S. Poosawang, Faculty of Humanities, Chiang Mai University, Chiang Mai, Thailand

O185 - PURCHASES OF ULTRA-PROCESSED PRODUCTS BY COLOMBIAN HOUSEHOLDS AND THEIR ASSOCIATION WITH DIETARY QUALITY

C. Arango, National School of Public Health, University of Antioquia, Medellín, Antioquia, Colombia

16.00 - 16.30

T7

Special Lecture

Chair: Maria Daniel Vaz de Almeida, Sciences, University of Porto, Porto, Portugal

Innovation and quick-wins in nutrition policies in WHO European Region

Joao Breda, WHO Programme Manager Nutrition, Physical Activity and Obesity

Room D

08.00 – 10.00

PS4-48

T8 – 8.2

Parallel Symposium

Food and Nutrition Reporting in the Media

Chair: Josephine Wills, Director General, European Food Information Council, Brussels, Belgium

Do Media Headlines Equal Credibility and Trust? A Look at US Consumer Insights on Trusted Sources for Food & Health Information
Marianne Smith Edge, International Food Information Council, Washington, USA

Comparison of reporting of food benefits and risks in European newspapers
Mary Friel, European Food Information Council (EUFIC), Brussels, Belgium

The Challenges of reporting about nutrition; a journalist's perspective
Emilio de Benito Cañizares, EL PAÍS Science/ Health Journalist, Madrid, Spain

11.30 – 13.30

PS4-56A

T8 – 8.2

Parallel Symposium

Bellagio report on healthy agriculture, healthy nutrition, healthy people

Chair: Ascensión Marcos, Spanish National Research Council (CSIC), Madrid, Spain

Marine n-3 pufa intake and risk of breast cancer
Duo Li, Department of Food Science & Nutrition, Zhejiang University, Hangzhou, China

Consumption patterns and trends for sugar-added beverages in Malaysia: Implications for human health
Leng Huat Foo, Programme of Nutrition, School of Health Sciences, Universiti Sains Malaysia, Health Campus, Kelantan, Malaysia

Sugar-sweetened beverages consumption and obesity
Guansheng Ma, National Institute for Nutrition and Food Safety, China Chinese Center for Disease Control and Prevention, Beijing, China

Seminars 3, 4, 5

08.00 – 10.00
PS4-48B

Parallel Symposium

Towards a European school food and nutrition network

Chair: Barrie Margetts, University of Southampton, UK

Introduction to the session

Barrie Margetts, University of Southampton, UK

Follow-up on municipality interventions to prevent obesity - A newly developed cartoon series on education in schools

Ana Rito, National Institute of Health, Doutor Ricardo Jorge, Universidade AtLantica, Lisbon, Portugal

Mechanisms to inform policy developments on school nutrition: examples from COSI (Childhood Obesity Surveillance Initiative) and the Health Behaviour in School-Aged Children (HBSC)

Joao Breda, WHO Europe, Programme Manager, Nutrition, Physical Activity and Obesity Programme, Copenhagen, Denmark

Vivian Barnekow, WHO Europe, Programme Manager, Child and Adolescent Health and Development, Copenhagen, Denmark

School food, attainment and obesity

Michael Nelson, Director, Public Health Nutrition Research Ltd, London, UK

Assessing school food policies across the EU

Sandra Caldeira, European Commission, Institute for Health and Consumer Protection, Ispra, Italy

Introduction to a proposal for a European school food and nutrition network

Michael Nelson, Director, Public Health Nutrition Research Ltd, London, UK

Joao Breda, WHO Europe, Programme Manager, Nutrition, Physical Activity and Obesity Programme, Copenhagen, Denmark

Sandra Caldeira, European Commission, Institute for Health and Consumer Protection, Ispra, Italy

Needs of network members – General Discussion

Ways forward

Michael Nelson, Director, Public Health Nutrition Research Ltd, London, UK

Joao Breda, WHO Europe, Programme Manager, Nutrition, Physical Activity and Obesity Programme, Copenhagen, Denmark

Sandra Caldeira, European Commission, Institute for Health and Consumer Protection, Ispra, Italy

Summing up

Barrie Margetts, University of Southampton, UK

11.30 – 13.30

PS4-56B

Parallel Symposium

Mitigating affordability constraints to accessing nutrient requirements

Chairs: Saskia de Pee, Technical Advisor Nutrition and HIV/AIDS, WFP, Rome, Italy

Nancy J Aburto, UN World Food Programme, WFP – CIFF Stunting Prevention Initiative, Rome, Italy

Introduction of the topic

Saskia de Pee, Technical Advisor Nutrition and HIV/AIDS, WFP, Rome, Italy

Use of Propan to design complementary feeding guidelines in-line with local food preferences and affordability - focus on Latin America

Chessa Lutter

Improving complementary feeding practices within the limits of households' constraints of accessing nutritious foods - example from Zimbabwe

Amy Desai, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, USA

Modeling different strategies to increase affordability of meeting nutrition requirements of different household members – Cost of Diet example from Indonesia

Giulia Baldi, Programme Officer Nutrition, World Food Programme, Indonesia Country Office, Jakarta, Indonesia

Comparing results of Cost of Diet analysis obtained with primary and secondary data – example from Afghanistan

Soo Mee Baumann, Programme Officer Vulnerability Assessment and Mapping (VAM), WFP Regional Bureau for Asia, Bangkok, Thailand

14.30 - 16.00

T8

Oral Communications

Chairs: Xianguang Yang, China

Antonio Guadix, Department of Engineering, University of Granada

O186 - THE INFORMAS FRAMEWORK FOR MONITORING AND BENCHMARKING DIET QUALITY GLOBALLY: A STEP-BASED APPROACH

S. Vandevijvere, School of Population Health, Department of Epidemiology and Biostatistics, University of Auckland, New Zealand

O187 - MONITORING THE NUTRITIONAL COMPOSITION OF FOODS TO IMPROVE THE GLOBAL FOOD SUPPLY

E. Dunford, The George Institute For Global Health, Sydney, Australia

O188 - HIGH BIOAVAILABILITY IRON MAIZE (ZEA MAYS L.) DEVELOPED THROUGH MOLECULAR BREEDING PROVIDES MORE ABSORBABLE IRON IN-VITRO (CACO-2) AND IN-VIVO (GALLUS-GALLUS)

E. Tako, USDA-ARS, Robert Holley Center for Agriculture and Health, Cornell University, NY, USA

O189 - ASSOCIATION BETWEEN DIETARY INTAKES OF POLYCHLORINATED BIPHENYLS (PCBS) AND RISK OF OBESITY

M. Bes-Rastrollo, Dept. Of Preventive Medicine And Public Health, University of Navarra, Pamplona, Spain; CIBER Fisiopatología de La Obesidad Y Nutrición (CIBERObn), Instituto de Salud Carlos III, Spain

O190 - COMPARISON OF EFFECT OF CASH TRANSFER WITH OR WITHOUT SPECIAL NUTRITIOUS FOOD ON PREVENTING CHILDHOOD ACUTE MALNUTRITION IN NIGER

C. Langendorf, Epicentre, Paris, France

O191 - POTENTIAL OF WILD EDIBLE PLANTS TO COMBAT NUTRITIONAL AND FOOD INSECURITY: A CASE FROM INDIAN HIMALAYAN REGION

I. Bhatt, G.B. Pant Institute of Himalayan Environment and Development, India

O192 - EFFECTIVE COMMUNICATION CHANNELS FOR COMMUNITY MOBILIZATION DURING VITAMIN A SUPPLEMENTATION CAMPAIGNS IN 3 STATES OF NIGERIA

I. Chima, Helen Keller International, Abuja, Nigeria

O193 - PHYTOCHEMICAL COMPOSITION OF PROCESSED AND RAW SAMPLES OF SOME LESSER KNOWN VEGETABLES FROM EASTERN ZONE NIGERIA.

O. Olawale, Federal University Wukari, Nigeria

16.00 - 16.30

T8

Special Lecture

Chair: Philip C. Calder, University of Southampton (USoton), UK

Identifying and characterizing the effects of nutrition on learning and memory

Neal Cohen, Neuroscience Program, and Beckman Institute; Neuroscience Program (NSP); Center for Nutrition, Learning, and Memory (CNLM); Center for Lifelong Improvement of Minds & Brains (CLIMB); University of Illinois at Urbana-Champaign

Friday, September 20th

Andalucía Rooms

08.00 – 10.00

PS5-57

T1 -1.4

Parallel Symposium

Early programming and nutrition in Latin America

Chairs: Francisco Mardones, Pontificia Universidad Católica de Chile, Chile

Cristina Campoy, University of Granada, Spain

Maternal calcium intake and modeling of fetal blood pressure

JM Belizan, Institute for Clinical Effectiveness, Buenos Aires, Argentina

Body mass index at birth, school age and adulthood as predictor of impaired blood pressure in young adults in Latin America

Alexandre A. Ferraro, Universidade de Sao Paulo, Brazil

Maternal obesity and neonatal insulin resistance in the origin of metabolic syndrome in childhood

Marcelo Farías, Pontificia Universidad Católica de Chile, Chile

Follow up of a cohort of malnourished children at age 20-30 years

Jaime Rozowski, Pontificia Universidad Católica de Chile, Chile

Early growth and bone maturation

Sylvia Cruchet, Institute of Nutrition and Food Technology, University of Chile, Chile

A new standard for insulin resistance and its association with the metabolic syndrome in Chilean school age children

Salesa Barja, Pontificia Universidad Católica de Chile, Chile

Association of pre and post natal growth with metabolic syndrome components during childhood

Francisco Mardones, Pontificia Universidad Católica de Chile, Chile

10.30 – 12.00

PS5-65

T1 -1.4

Parallel Symposium

Metabolic and nutritional aspects of genetic diseases

Chairs: José L. Santos, Pontificia Universidad Católica de Chile, Santiago, Chile

Luis Fontana, University of Granada, Spain

Therapeutic strategies in organic acidurias

Magdalena Ugarte, Universidad Autónoma de Madrid, Spain

Nutritional aspects of Phenylketonuria & Methylmalonic acidemia

Verónica Cornejo, Institute of Nutrition and Food Technology (INTA) - University of Chile, Santiago, Chile

Omega 3 fatty acids and inborn errors of metabolism

Mercedes Gil-Campos, Reina Sofía University Hospital, Córdoba, Spain

Strategies for searching genetic causes of extreme phenotypes of metabolic traits

José Luis Santos, Pontificia Universidad Católica de Chile, Santiago, Chile

Machado and Picasso Rooms

08.00 – 10.00

**PS5-58
T2 – 2.1**

The NU-AGE project: New dietary strategies about healthy nutrition for the elderly

*Chairs: Claudio Franceschi, University of Bologna, Italy
Sue Fairweather-Tait, University of East Anglia, UK*

A randomized trial on the effect of a full dietary intervention on ageing in European elderly people: The NU-AGE study

Lisette de Groot, University of Wageningen, The Netherlands

Diet-microbiota-health interactions in older persons - the ELDERMET study and probing causality in the NuAge project

Paul O'Toole, University of Cork, Ireland

Nutritional metabonomics: development and validation of aging biomarkers

Sebastiano Collino, estec, Switzerland

Socio-economic determinants of food choices and diet quality among the EU elderly

Xavier Irz, Maa Ja ElintarviketaloudenTutkimuskeskus-Finland

**(Machado)
10:30-12:00
PS5-66A
T5 – 5.4**

Parallel Symposium

Trace elements and chronic diseases

*Chairs: Manuel Ruz, University of Chile, Chile
Miguel Navarro, Department of Nutrition and Food Sciences, University of Granada, Spain*

Zinc and obesity

Jorge Rosado, Universidad Autónoma de Querétaro, Querétaro, Mexico

Iron and inflammation in type-2 diabetes

Miguel Arredondo, University of Chile, Chile

Zinc and inflammation in type-2 diabetes

Olga P. García, Universidad Autónoma de Querétaro, Querétaro, Mexico

Zinc as coadjuvant in type-2 diabetes treatment

Manuel Ruz, University of Chile, Chile

Falla Auditorium

8:00-10:00

PS5-59

T3 – 3.6

Parallel Symposium

Food insecurity and obesity across the life cycle

*Chairs: Rafael Pérez-Escamilla, Yale School of Public Health, USA
Gilberto Kac, Federal University of Rio de Janeiro, Brazil*

Household food insecurity and obesity across the life cycle: Conceptual framework and biological plausibility

Rafael Pérez-Escamilla, Yale School of Public Health, USA

Household food insecurity and excessive weight among Brazilian subjects: A life-course approach

Gilberto Kac, Federal University of Rio de Janeiro

Food security and obesity risk throughout life cycle stages in Mexico

Juan Rivera/Teresa Shamah Levy, INSP, Cuernavaca, Mexico

Household food insecurity and obesity risk across the life course: USA

Ed Frongillo, University of South Carolina, Columbia, USA

Summary and policy implications

Gilberto Kac, Federal University of Rio de Janeiro, Brazil

Rafael Pérez-Escamilla, Yale School of Public Health, USA

10.30 – 12.00

PS5-67

T3 – 3.2

Parallel Symposium

Type 2 diabetes in Asia's rapid growth is due to genetic or dietary change?

Chair: Duo Li, Department of Food Science & Nutrition, Zhejiang University, Hangzhou, China

Effects of nutrition, lifestyle and genetic factors on metabolic abnormalities among Chinese

Xu Lin, Professor, Chinese Academy of Sciences (CAS), China

Asians are much more vulnerable to dietary change due to lower insulin secretion.

Kiyoshi Tanaka, Kyoto Women's University, Kyoto, Japan

Overweight and diabetes in India

Anura V Kurpad, St John's Medical College, Bangalore, India

Effect of vitamin B12 and n-3 polyunsaturated fatty acids on plasma homocysteine, and other cardiovascular risk factors: randomized controlled trial

Tao Huang, Johns Hopkins University, Baltimore, Maryland, USA

Insulin resistance in glucose tolerant obese adolescents are associated with increased level of plasma hsCRP and uric acid

Agussalim Bukhari, Hasanuddin University, Makassar, Indonesia

Lorca Auditorium

08.00 – 10.00

PS5-60

T4 –4.5

Parallel Symposium

Maternal nutritional supplementation of HIV-infected women during lactation: Implications for maternal and infant health in resource-poor settings

*Chairs: Linda Adair, University of North Carolina at Chapel Hill, USA
Mònica Bulló Bonet, Rovira i Virgili University, CIBERobn, Spain*

The BAN Study in Malawi: Use of qualitative methods to guide study design and evaluation of a randomized controlled nutrition supplementation and prevention of mother-to-child nutrition intervention trial

Margaret Bentley, University of North Carolina at Chapel Hill, USA

Effects of maternal nutrition supplementation and anti-retroviral treatment on the postpartum weight and micronutrient status and breast milk composition of HIV-infected women in the BAN Study

Linda Adair, University of North Carolina at Chapel Hill, USA

Growth and micronutrient status of HIV-exposed infants in the BAN study during the first year of life

Valerie Flax, University of North Carolina at Chapel Hill, USA

Meeting the nutritional needs of hiv-infected women and infants in resource-poor settings: program and policy implications

Ellen Piwoz, Bill and Melinda Gates Foundation, Washington, USA

10.30 – 12.00

PS5-68

T4 – 4.5

Parallel Symposium

New insights in obesity, metabolic syndrome and diabetes

Chairs: Francisco Mardones, Pontificia Universidad Católica de Chile, Chile

Jose Alfredo Martinez, University of Navarra, Pamplona, Spain

Genetic susceptibility to obesity and metabolic syndrome in childhood

Concepcion M. Aguilera, University of Granada, Granada, Spain

Circadian rhythms, food timing and obesity

Marta Garaulet, University of Murcia, Spain

Recent advances in nutritional sciences: gene therapy for diabetes and the genetic basis of postprandial metabolism

Raul A. Bastarrachea, Department of Genetics, Texas Biomedical Research Institute, San Antonio, Texas, USA

12.00 – 13.30

Closing Ceremony

Chairs: Angel Gil and Ibrahim Elmadfa

12:00-12:15

Towards a new milestone in European nutrition and physical activity policies - Vienna Declaration on Nutrition and NCD

João Breda, WHO Regional Office for Europe João Breda, Nutrition, Physical Activity and Obesity Programme Division of Noncommunicable Diseases and Life-Course World Health Organization, Copenhagen, Denmark

12:15-12:45

Closing Lecture

Health and Well Being in the Changing Urban Environment

Dov Jaron, School of Biomedical Engineering, Science & Health Systems, Member of the International Council of Science (ICSU) Board

12.45-13.00

Presentation IUNS 21st ICN

13.00-13.15

Closing remarks

13.15-13.45

Performance

14.00-15.30

Show Cooking at Parque de las Ciencias

Room B

08.00 – 10.00

PS5-61

T5 –5.4

Parallel Symposium

Micronutrient Fortification. Science and Strategies for Public Health Improvement in Asia

Chairs: Takashi Togami, Director, ILSI CHP Japan

Geoffrey Smith, President, ILSI Southeast Asia Region

Welcome Remarks

Takashi Togami, Director, ILSI CHP Japan

Micronutrients and Food Fortification – Strategic and Practical Issues

Geoffrey L Smith, President, ILSI Southeast Region

GAIN's Global Strategy on Food Fortification to Improve Public Health – Asia Highlights

Regina Moench-Pfanner, Global Alliance for Improved Nutrition, Singapore

Iron-fortified Soy Sauce in China- An Assessment of 10 years of Policy and Business Development

Junshi Chen, ILSI Focal Point China, China

Vietnam: Iron-fortified Fish Sauce-Evaluating and Adopting a Successful Model

Le Thi Hop, National Institute of Nutrition, Vietnam

Cambodia: Iron-fortified Fish Sauce- Progress & Development

Theary Chan, Reproductive and Child Health Alliance (RACHA), Cambodia

Philippines: Iron Fortified Rice - Lessons learnt, Opportunities and Challenges

Mario Capanzana, Food and Nutrition Research Institute, Philippines

10.30 – 12.00
PS5-69
T5 – 5.4

Parallel Symposium

Evaluation of food fortification and biofortification interventions in developing countries using stable isotopes

*Chairs: Najat Mokhtar, International Atomic Energy Agency
Warren T. K. LEE, Economic & Social Development
Department, FAO*

Efficacy of Vitamin A in fortified extruded rice in school children in North-Eastern Thailand

Emorn Wasantwisut, Institute of Nutrition, Mahidol University, Bangkok, Thailand

Vitamin A intake in exclusively breastfed babies from mothers consuming daily vitamin a fortified oil during six months

Asmaa eEl Hamdouchi, CNESTEN-Université IbnTofail, Rabat, Morocco

Use of the deuterated retinol dilution technique to assess total body vitamin A stores in Mexican preschoolers consuming vitamin A-fortified milk

Humberto Astiazarán García, Centro de Investigación en Alimentación y Desarrollo (CIAD), Mexico

A Multiple Meal Study to Evaluate Human Iron Absorption from Typical Rwandan Meals Based on Beans

Jean Bosco Gahutu, University of Rwanda, Rwanda

Vitamin A status assessment: setting the scene

Sherry Tanumihardjo, Department of Nutritional Sciences, University of Wisconsin, WI. USA

Room C

08.00 – 10.00
PS5-62
T6 – 6.1

Parallel Symposium

Functional properties of proteins of biological and food origin

*Chairs: Miquel Moretó, University de Barcelona, Barcelona, Spain
Olga Martínez Augustin, University of Granada, Spain*

Food derived peptides with potential health benefits

RJ Fitzgerald , University of Limerick, Ireland

Effects of animal plasma supplements

Miquel Moretó, University of Barcelona, Spain

Anti-inflammatory mechanisms of bioactive milk proteins in the intestine of newborns

Dereck E.W. Chatterton. University of Copenhagen, Denmark

10.30 – 12.00
PS5-70
T6 – 6.1

Parallel Symposium

Phytochemicals responsible for the food function, from the chemistry to physiological relevance and human health

*Chairs: Taiichiro Seki, Nihon University, Japan
Hitomi Kumagai, Nihon University, Japan*

Red wine polyphenoles and human health
Cristina Andres-Lacueva, University of Barcelona, Spain

Multi-function of gallate for human health
Sue-Joan Chang, College of Bioscience and Biotechnology, National Cheng Kung University, Taiwan

Garlic-derived compounds for the prevention of lifestyle-related diseases
Taiichiro Seki, College of Bioresource Sciences, Nihon University, Japan

Physiological functions of a flavor component from shiitake mushrooms
Hitomi Kumagai, College of Bioresource Sciences, Nihon University, Japan

Machuca and Albéniz Rooms

(Machuca)
08.00 – 10.00
PS5-63A
T7 - 7.4

Parallel Symposium **Regulation versus innovation** **(IUFFoST)**

*Chairs: Ping Fan Rao, President IUFFoST
V. Prakash Council Member of IUFFoST and IUNS and
Distinguished Scientist of CSIR-India*

Regulation and Innovation in functional foods
Delia B. Rodriguez-Amaya, International Academy of Food Science and Technology, Campinas, Brasil

Food Regulation and Processing Innovation in Vietnam
Ly Nguyen Binh, Department of Food Technology, College of Agriculture and Applied Biology, Can Tho University, Vietnam

Advancing novel preservation technologies demands harmonizing international food safety legislation and regulations
Larry Keener, International Product Safety Consultants, Inc. (IPSC), Seattle, Washington, USA

How to work with the food industry to improve the nutritional profiles of processed foods
Nigel Sunley, Sunley Consulting, Johannesburg, South Africa

(Albéniz)
08.00 – 10.00
PS5-63B

Food systems for nutrition and health: growing, shopping, cooking and eating

Sustainable and affordable horticulture for healthy communities: African and Asian experiences

Ray-Yu Yang, Peter Hanson, J.d'A. Hughes, J.D.H. Keatinge*
AVRDC – The World Vegetable Center, 60 Yi-Min Liao, Shanhua, Tainan,
Taiwan

Introduction to foodscape studies – what they can do for public health nutrition

Bent Egberg Mikkelsen, Aalborg University, Denmark

Could the Greek Home Garden explain the reduced cardiovascular mortality in elderly greek migrants to Australia?

Catherine Itsiopoulos, Antigone Kouris, Tania Thodis, Speros Tsindos, Elleni Kaias, La Trobe University, Melbourne, Australia*

Beyond foodscapes –the importance of health geography and the built environment

Agneta Yngve, Örebro University, Sweden

The role of shopping and cooking in the food and health systems of elders

Meei-Shyuan Lee, Mark L Wahlqvist, Yu-Hung Chang, Rosalind CY Che, National Defense Medical Center, Taiwan*

Integrating Food and Health with Ecosystems for Human Development

Mark L Wahlqvist, Monash University, Melbourne, Australia

(Machuca)

10.30 – 12.00

PS5-71A

T7 - 7.4

Parallel Symposium

The value of nutrition labelling: Has nutrition labelling reduced any chronic diseases?

(IUFOST)

Using South African food companies' nutrition strategies and consumer knowledge, attitudes and practices pertaining to nutrition information to develop guidelines for the promotion of the prevention of chronic diseases of lifestyle

Jane Badham, JB Consultancy, South Africa

The Nutrition Facts Table – has Front of Pack Labelling left the back of pack behind?

Mary L'Abbe, University of Toronto, Canada

Nutrition Labelling in Europe - Effective Guidance Towards More Healthful Food Choices?

Laura Fernández Celemin, European Food Information Council (EUFIC), Brussels, Belgium.

(Albéniz)

10.30 – 12.00

PS5-71B

T7 - 7.4

Parallel Symposium

IUNS Task Force

Urbanization, Climate Change and Nutrition Insecurity

Chairs: Godwin D. Ndossi, Tanzania National Health Research Forum, Tanzania

Osman Galal, University of California, USA

Nutrition and food security: a climatological perspective
Tom Beer, International Union of Geodesy and Geophysics (IUGG)

Effects of climate change on the food supply chain and their impact on urban nutrition security.
Albert E. J. McGill, International Union of Food Science and Technology (IUFoST)

Influence of urbanization on climate change and nutrition insecurity
Tola Atinmo, Dept of Human Nutrition, University of Ibadan, Nigeria

Urbanization and food security: income and non-income dimensions
Cecilia Tacoli, International Institute for Environment and Development, UK

Ecosystem approaches to nutrition and health security: urbanised communities
Mark L Wahlqvist, Monash University, Melbourne, Australia & National Health Research Institutes, Taiwan

Room D
08.00 – 10.00
PS5-64
T8 –8.2

Parallel Symposium

Improving food at work: an international approach and some national experiences

Chairs: Eduardo Atalah Samur, Faculty of Medicine, University of Chile, Santiago de Chile, Chile
Fernando Gil, Catedrático de Toxicología, Granada, Spain

Challenges to improve nutrition at workplace in Chile.
Eduardo Atalah, Faculty of Medicine, University of Chile, Santiago de Chile, Chile

Feeding program at work (PAT) in Brazil
Antonio Neto, President of the Union of Workers of Computing and Information Technology, Sao Paulo, Brazil

Challenges to improve nutrition at workplace in Spain.
Jordi Suriñach, Research Institute of Applied Economics (IREA), Barcelona, Spain

Good practice of nutrition program at workplace: Spain experience
Monica Garcia, Director of Human Resources, Orange Society

10.30 – 12.00
PS5-72
T8 –8.2

Parallel Symposium

The shift toward a modern industrialized food system, potential implications for nutrition-related chronic diseases and for public policies

Chairs: Antonio Guadix, Department of Engineering, University of

Granada, Granada, Spain
Carlos Monteiro

Evolution from traditional food systems to the globalizing food system:
a possible mismatch between human diet and health?

Jean-Claude Moubarac, University of Sao Paulo, Brazil

The new role of industrial food processing in food systems: impact on
nutrition and health – a perspective from the South

Carlos Monteiro, University of Sao Paulo, Brazil

The modern global food system—its evolution and current status and
how it is related to our health

Barry Popkin, University of North Carolina, USA